CALIFORNIA HIGH-SPEED TRAIN

Project Environmental Impact Report/Environmental Impact Statement

Final EIR/EIS

Fresno to Bakersfield Section

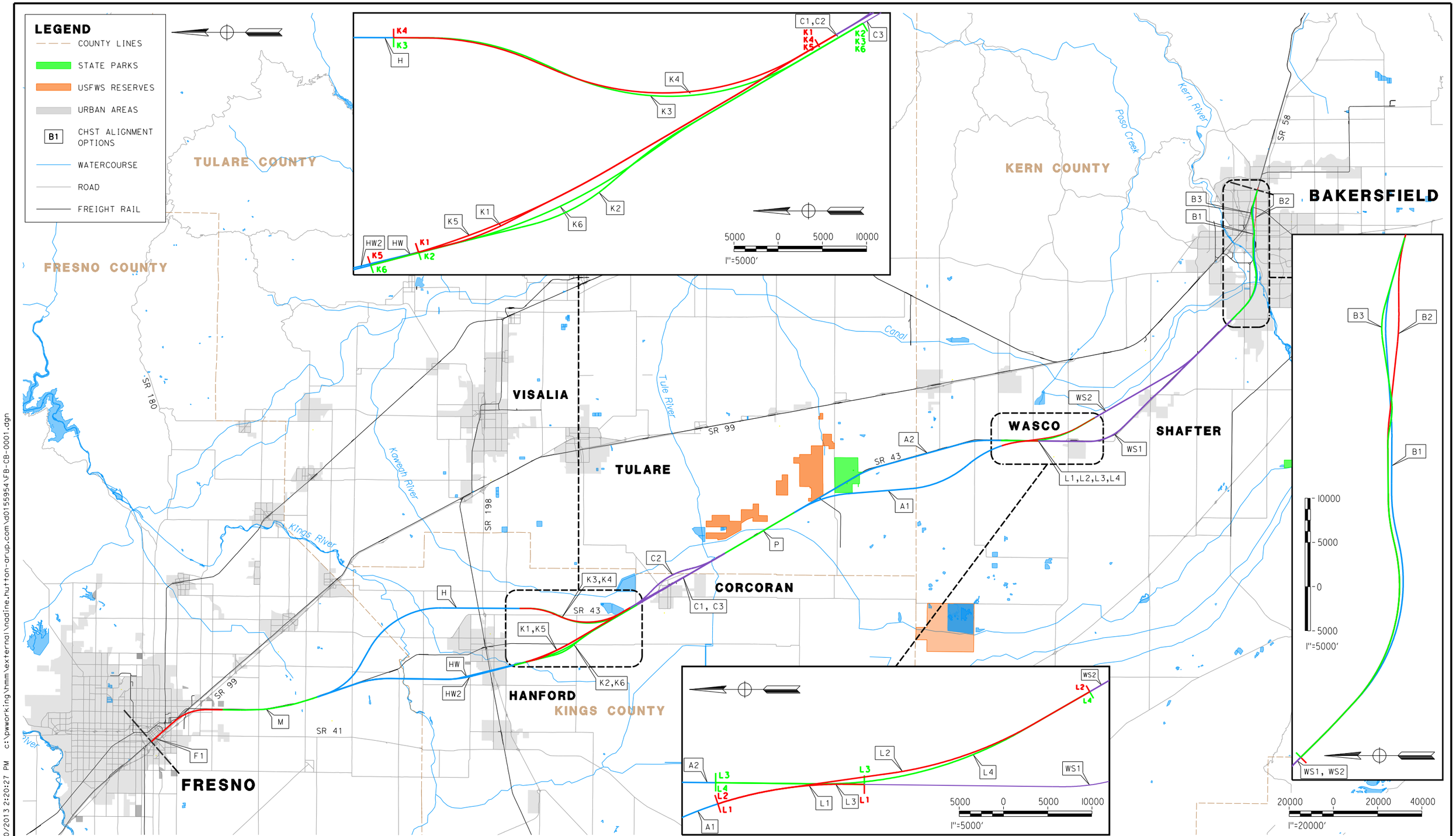
Volume III:
Alignments and Other Plans

Section D
Roadway Plans
Part 2 of 2

April 2014

CALIFORNIA
High-Speed Rail Authority

U.S. Department of Transportation
Federal Railroad Administration



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

ALIGNMENT LOCATION MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0001
SCALE AS SHOWN
SHEET NO. 1 OF 11

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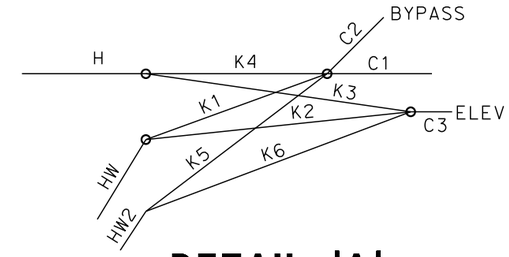
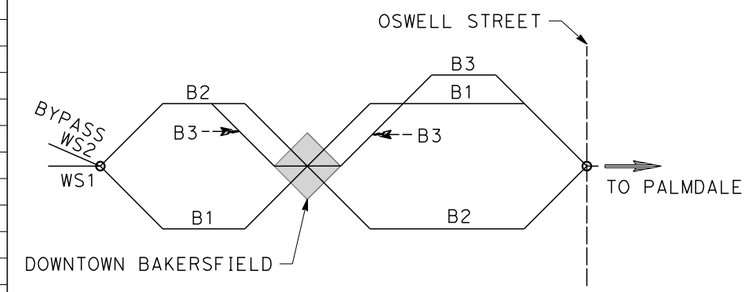
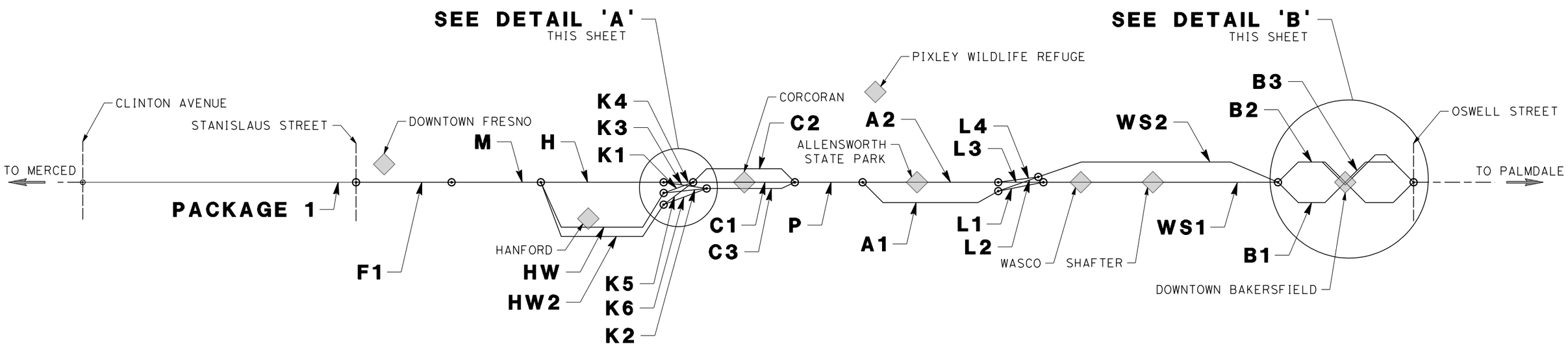
SUBSECTION CODE	NAME	LENGTH (MI)	EIR-EIS ALTERNATIVE
F1	FRESNO SUBSECTION	7.00	BNSF
M	MONMOUTH SUBSECTION	8.24	BNSF
H	HANFORD SUBSECTION	20.45	BNSF (HANFORD EAST)
HW	HANFORD WEST BYPASS SUBSECTION	18.27	HANFORD WEST BYPASS 1 & 2
HW2	HANFORD WEST BYPASS SUBSECTION	17.22	HANFORD WEST BYPASS 1 & 2 MODIFIED
K1	KAWEAH SUBSECTION	10.12	HANFORD WEST BYPASS 2 (AT-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K2	KAWEAH SUBSECTION	10.83	HANFORD WEST BYPASS 1 (AT-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K3	KAWEAH SUBSECTION	10.61	BNSF (HANFORD EAST) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
K4	KAWEAH SUBSECTION	9.92	BNSF (HANFORD EAST) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K5	KAWEAH SUBSECTION	11.17	HANFORD WEST BYPASS 2 MODIFIED (BELOW-GRADE) (CONNECTS TO C1 [CORCORAN ELEVATED] OR C2 [CORCORAN BYPASS])
K6	KAWEAH SUBSECTION	11.84	HANFORD WEST BYPASS 1 MODIFIED (BELOW-GRADE) (CONNECTS TO C3 [BNSF THROUGH CORCORAN])
C1	CORCORAN SUBSECTION	9.36	CORCORAN ELEVATED
C2	CORCORAN BYPASS SUBSECTION	9.49	CORCORAN BYPASS
C3	CORCORAN SUBSECTION	8.74	BNSF (THROUGH CORCORAN)
P	PIXLEY SUBSECTION	6.88	BNSF
A1	ALLENSWORTH BYPASS SUBSECTION	19.05	ALLENSWORTH BYPASS
A2	THROUGH ALLENSWORTH SUBSECTION	19.03	BNSF (THROUGH ALLENSWORTH)
L1	POSO CREEK SUBSECTION	3.18	ALLENSWORTH BYPASS (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L2	POSO CREEK SUBSECTION	8.41	ALLENSWORTH BYPASS (CONNECTS TO WASCO-SHAFTER BYPASS)
L3	POSO CREEK SUBSECTION	3.18	BNSF (THROUGH ALLENSWORTH) (CONNECTS TO BNSF [THROUGH WASCO-SHAFTER])
L4	POSO CREEK SUBSECTION	8.43	BNSF (THROUGH ALLENSWORTH) (CONNECTS TO WASCO-SHAFTER BYPASS)
WS1	THROUGH WASCO-SHAFTER SUBSECTION	20.63	BNSF (THROUGH WASCO-SHAFTER)
WS2	WASCO-SHAFTER BYPASS SUBSECTION	14.49	WASCO-SHAFTER BYPASS
B1	BAKERSFIELD URBAN SUBSECTION	11.95	BNSF (BAKERSFIELD NORTH)
B2	BAKERSFIELD URBAN SUBSECTION	11.88	BAKERSFIELD SOUTH
B3	BAKERSFIELD URBAN SUBSECTION	11.95	BAKERSFIELD HYBRID



DETAIL 'A'



DETAIL 'B'



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CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALIGNMENT
ALIGNMENT SUBSECTION DIAGRAM

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0002
SCALE NTS
SHEET NO. 2 OF 11

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GENERAL SHEETS

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0001	ALIGNMENT - LOCATION MAP	SHEET 1 OF 11	1
CB0002	ALIGNMENT - ALIGNMENT SUBSECTIONS DIAGRAM	SHEET 2 OF 11	
CB1003	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 1 OF 7	SHEET 3 OF 11	
CB1004	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 2 OF 7	SHEET 4 OF 11	
CB1005	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 3 OF 7	SHEET 5 OF 11	
CB1006	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 4 OF 7	SHEET 6 OF 11	
CB1007	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 5 OF 7	SHEET 7 OF 11	
CB1008	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 6 OF 7	SHEET 8 OF 11	
CB1009	ROADWAY & GRADE SEPARATION - INDEX OF SHEETS - SHEET 7 OF 7	SHEET 9 OF 11	
CB0010	GENERAL - ABBREVIATIONS & LEGENDS - SHEET 1 OF 2	SHEET 10 OF 11	
CB0011	GENERAL - ABBREVIATIONS & LEGENDS - SHEET 2 OF 2	SHEET 11 OF 11	

ALIGNMENT F1 - FRESNO SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0040	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 28	1
CT1012	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - STANISLAUS ST & TUOLUMNE ST	SHEET 2 OF 28	
CT1013	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - FRESNO ST	SHEET 3 OF 28	
CT1017	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - TULARE ST (UNDERPASS)	SHEET 4 OF 28	
CT1020	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - VENTURA ST (UNDERPASS)	SHEET 5 OF 28	
CT1021	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E CHURCH AVE	SHEET 6 OF 28	
CT1025	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E CENTRAL AVE	SHEET 7 OF 28	
CT1028	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION LAYOUT - E AMERICAN AVE	SHEET 8 OF 28	
CT2011	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - STANISLAUS ST	SHEET 9 OF 28	
CT2012	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - TUOLUMNE ST	SHEET 10 OF 28	
CT2013	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - FRESNO ST	SHEET 11 OF 28	
CT2014	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - H ST (FRESNO ST)	SHEET 12 OF 28	
CT2015	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - G ST (FRESNO ST)	SHEET 13 OF 28	
CT2017	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - TULARE ST (UNDERPASS)	SHEET 14 OF 28	
CT2018	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - G ST (TULARE ST UNDERPASS)	SHEET 15 OF 28	
CT2020	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - VENTURA ST (UNDERPASS)	SHEET 16 OF 28	
CT2029	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - G ST & H ST (VENTURA ST UNDERPASS)	SHEET 17 OF 28	
CT2021	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - E CHURCH AVE	SHEET 18 OF 28	
CT2022	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - S G ST (E CHURCH AVE)	SHEET 19 OF 28	
CT2023	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - S EAST AVE AND SUNLAND AVE	SHEET 20 OF 28	
CT2024	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - S GOLDEN STATE BLVD	SHEET 21 OF 28	
CT2025	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - E CENTRAL AVE	SHEET 22 OF 28	
CT2027	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - S CEDAR AVE	SHEET 23 OF 28	
CT2028	FRESNO SUBSECTION - ALIGNMENT F1 - GRADE SEPARATION PROFILE - E AMERICAN AVE	SHEET 24 OF 28	
CT3001	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 25 OF 28	
CT3002	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 26 OF 28	
CT3003	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 27 OF 28	
CT3004	FRESNO SUBSECTION - ALIGNMENT F1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 28 OF 28	

ALIGNMENT M - MONMOUTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0050	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 32	1
CT1101	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E LINCOLN AVE	SHEET 2 OF 32	
CT1103	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E ADAMS AVE	SHEET 3 OF 32	
CT1104	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E SOUTH AVE	SHEET 4 OF 32	
CT1106	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E MANNING AVE	SHEET 5 OF 32	
CT1107	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E MANNING AVE	SHEET 6 OF 32	
CT1109	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E FLORAL AVE	SHEET 7 OF 32	
CT1110	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E FLORAL AVE	SHEET 8 OF 32	
CT1111	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E NEBRASKA AVE	SHEET 9 OF 32	
CT1112	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E NEBRASKA AVE	SHEET 10 OF 32	
CT1113	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E MOUNTAIN VIEW AVE	SHEET 11 OF 32	
CT1114	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION LAYOUT - E MOUNTAIN VIEW AVE	SHEET 12 OF 32	
CT1115	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY LAYOUT - S CHESTNUT AVE (NORTH)	SHEET 13 OF 32	
CT1116	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY LAYOUT - S CHESTNUT AVE (SOUTH)	SHEET 14 OF 32	
CT2101	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E LINCOLN AVE AND S MAPLE AT E LINCOLN AVE	SHEET 15 OF 32	
CT2102	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY PROFILE - S CEDAR AND S MAPLE AT E ADAMS	SHEET 16 OF 32	
CT2103	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E ADAMS AVE	SHEET 17 OF 32	
CT2104	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E SOUTH AVE AND S CEDAR AT E SOUTH AVE	SHEET 18 OF 32	
CT2105	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY PROFILE - S MAPLE AT E MANNING	SHEET 19 OF 32	
CT2106	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E MANNING AVE	SHEET 20 OF 32	
CT2107	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E MANNING AVE	SHEET 21 OF 32	
CT2108	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E FLORAL AVE	SHEET 22 OF 32	
CT2109	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E FLORAL AVE	SHEET 23 OF 32	
CT2110	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E NEBRASKA AVE	SHEET 24 OF 32	
CT2111	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E NEBRASKA AVE	SHEET 25 OF 32	
CT2112	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY PROFILE - S CHESTNUT AT E NEBRASKA AVE	SHEET 26 OF 32	
CT2113	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E MOUNTAIN VIEW AVE	SHEET 27 OF 32	
CT2114	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - E MOUNTAIN VIEW AVE	SHEET 28 OF 32	
CT2115	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - S CHESTNUT AVE (NORTH)	SHEET 29 OF 32	
CT2116	MONMOUTH SUBSECTION - ALIGNMENT M - GRADE SEPARATION PROFILE - S CHESTNUT AVE (SOUTH)	SHEET 30 OF 32	
CT3010	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 31 OF 32	
CT3011	MONMOUTH SUBSECTION - ALIGNMENT M - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 32 OF 32	

ALIGNMENT H - HANFORD SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0055	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 60	
CT1117	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 2 OF 60	
CT1118	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 3 OF 60	
CT1119	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 4 OF 60	
CT1120	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 5 OF 60	
CT1121	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S FOWLER AVE	SHEET 6 OF 60	
CT1122	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - S FOWLER AVE	SHEET 7 OF 60	
CT1123	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E DAVIS AVE	SHEET 8 OF 60	
CT1124	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - E DAVIS AVE	SHEET 9 OF 60	
CT1130	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - DOVER AVE	SHEET 10 OF 60	
CT1131	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - DOVER AVE	SHEET 11 OF 60	
CT1132	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - 8TH AVE (NORTH)	SHEET 12 OF 60	
CT1133	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - 8TH AVE (SOUTH)	SHEET 13 OF 60	
CT1134	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 14 OF 60	
CT1135	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 15 OF 60	
CT1136	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - ELDER AVE	SHEET 16 OF 60	
CT1137	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - ELDER AVE	SHEET 17 OF 60	
CT1138	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 18 OF 60	
CT1139	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 19 OF 60	
CT1140	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 20 OF 60	
CT1141	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 21 OF 60	
CT1144	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HANFORD ARMONA RD	SHEET 22 OF 60	
CT1145	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HANFORD ARMONA RD	SHEET 23 OF 60	
CT1146	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 24 OF 60	
CT1147	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 25 OF 60	
CT1148	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 26 OF 60	
CT1149	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 27 OF 60	
CT2117	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 28 OF 60	
CT2118	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 29 OF 60	
CT2119	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 30 OF 60	
CT2120	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 31 OF 60	1
CT2121	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - S FOWLER AVE	SHEET 32 OF 60	
CT2122	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - S FOWLER AVE	SHEET 33 OF 60	
CT2123	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - E DAVIS AVE	SHEET 34 OF 60	
CT2124	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - E DAVIS AVE	SHEET 35 OF 60	
CT2130	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - DOVER AVE	SHEET 36 OF 60	
CT2131	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - DOVER AVE	SHEET 37 OF 60	
CT2132	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - 8TH AVE (NORTH)	SHEET 38 OF 60	
CT2133	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - 8TH AVE (SOUTH)	SHEET 39 OF 60	
CT2134	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 40 OF 60	
CT2135	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 41 OF 60	
CT2136	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - ELDER AVE	SHEET 42 OF 60	
CT2137	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - ELDER AVE	SHEET 43 OF 60	
CT2138	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 44 OF 60	
CT2139	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 45 OF 60	
CT2140	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 46 OF 60	
CT2141	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 47 OF 60	
CT2142	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - 7 1/2 AVE CONNECTOR	SHEET 48 OF 60	
CT2143	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - 7 1/2 AVE	SHEET 49 OF 60	
CT2144	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 50 OF 60	
CT2145	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 51 OF 60	
CT2146	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 52 OF 60	
CT2147	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 53 OF 60	
CT2148	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - IONA AVE	SHEET 54 OF 60	
CT2149	HANFORD SUBSECTION - ALIGNMENT H - GRADE SEPARATION PROFILE - IONA AVE	SHEET 55 OF 60	
CR1251	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY LAYOUT - E CLARKSON AVE & S MINNEWAWA AVE	SHEET 56 OF 60	
CR2251	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY PROFILE - E CLARKSON AVE & S MINNEWAWA AVE	SHEET 57 OF 60	
CR2252	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY PROFILE - E CLARKSON AVE & S MINNEWAWA AVE	SHEET 58 OF 60	
CT3030	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 59 OF 60	
CT3031	HANFORD SUBSECTION - ALIGNMENT H - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 60 OF 60	

ALIGNMENT HW - HANFORD WEST BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0210	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 47	
CT1310	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - E CONEJO AVE	SHEET 2 OF 47	
CT1311	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 3 OF 47	
CT1313	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 4 OF 47	
CT1314	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 5 OF 47	
CT1315	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 6 OF 47	
CT1316	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 7 OF 47	
CT1317	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 8 OF 47	
CT1318	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 9 OF 47	
CT1319	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 10 OF 47	
CT1321	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - GRANGEVILLE BLVD	SHEET 11 OF 47	
CT1322	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - W LACEY BOULEVARD / 13TH AVE	SHEET 12 OF 47	
CT1323	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - W LACEY BOULEVARD / 13TH AVE	SHEET 13 OF 47	
CT1327	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - GLENDALE AVE/SR 198/HANFORD ARMONA RD	SHEET 14 OF 47	
CT1328	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - GLENDALE AVE/SR 198/HANFORD ARMONA RD	SHEET 15 OF 47	
CT1334	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 16 OF 47	
CT1336	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 17 OF 47	
CT2310	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - E CONEJO AVE	SHEET 18 OF 47	
CT2311	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 19 OF 47	
CT2312	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 20 OF 47	
CT2313	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 21 OF 47	
CT2314	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 22 OF 47	
CT2315	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 23 OF 47	
CT2316	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 24 OF 47	1
CT2317	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 25 OF 47	
CT2318	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 26 OF 47	
CT2319	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 27 OF 47	
CT2320	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 28 OF 47	
CT2321	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - GRANGEVILLE BLVD	SHEET 29 OF 47	
CT2322	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - W LACEY BLVD	SHEET 30 OF 47	
CT2323	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - 13TH AVE	SHEET 31 OF 47	
CT2324	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - 13TH AVE	SHEET 32 OF 47	
CT2327	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - SR 198	SHEET 33 OF 47	
CT2328	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - SR 198	SHEET 34 OF 47	
CT2329	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - GLENDALE AVE	SHEET 35 OF 47	
CT2330	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 36 OF 47	
CT2331	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 37 OF 47	
CT2332	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - SR 198 RAMPS	SHEET 38 OF 47	
CT2334	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 39 OF 47	
CT2335	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 40 OF 47	
CT2336	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - IONA AVE	SHEET 41 OF 47	
CT2337	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - IONA AVE	SHEET 42 OF 47	
CT2338	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - GRADE SEPARATION PROFILE - 12TH AVE (AT IONA AVE)	SHEET 43 OF 47	
CT3330	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 44 OF 47	
CT3331	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 45 OF 47	
CT3332	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 46 OF 47	
CT3333	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 47 OF 47	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
CHECKED BY G. SCHLERETH
IN CHARGE R. COFFIN
DATE 12/31/13

DRAFT 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 2 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1004
SCALE NO SCALE
SHEET NO. 4 OF 11

ALIGNMENT HW2 - HANFORD WEST BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0215	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 37	1
CT1536	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - E CONEJO AVE	SHEET 2 OF 37	
CT1537	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - E ELKHORN AVE	SHEET 3 OF 37	
CT1538	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - E ELKHORN AVE / S CLOVIS AVE	SHEET 4 OF 37	
CT1539	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - S CLOVIS AVE	SHEET 5 OF 37	
CT1540	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 6 OF 37	
CT1541	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - EXCELSIOR AVE	SHEET 7 OF 37	
CT1542	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 8 OF 37	
CT1543	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - FLINT AVE	SHEET 9 OF 37	
CT1544	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - FARGO AVE	SHEET 10 OF 37	
CT1545	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - GRANGEVILLE BLVD	SHEET 11 OF 37	
CT1546	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - W LACEY BOULEVARD / 13TH AVE	SHEET 12 OF 37	
CT1547	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - 13TH AVE	SHEET 13 OF 37	
CT1548	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - GLENDALE AVE/SR 198/HANFORD ARMONA RD	SHEET 14 OF 37	
CT1549	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION LAYOUT - HOUSTON AVE	SHEET 15 OF 37	
CT2535	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - E CONEJO AVE	SHEET 16 OF 37	
CT2536	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 17 OF 37	
CT2537	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - E ELKHORN AVE	SHEET 18 OF 37	
CT2538	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 19 OF 37	
CT2539	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - S CLOVIS AVE	SHEET 20 OF 37	
CT2540	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 21 OF 37	
CT2541	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - EXCELSIOR AVE	SHEET 22 OF 37	
CT2542	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 23 OF 37	
CT2543	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - FLINT AVE	SHEET 24 OF 37	
CT2544	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 25 OF 37	
CT2545	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - FARGO AVE	SHEET 26 OF 37	
CT2546	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - GRANGEVILLE BLVD	SHEET 27 OF 37	
CT2547	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - W LACEY BLVD	SHEET 28 OF 37	
CT2548	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - 13TH AVE	SHEET 29 OF 37	
CT2549	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - 13TH AVE	SHEET 30 OF 37	
CT2550	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - SR 198 / GLENDALE AVE	SHEET 31 OF 37	
CT2551	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - HANFORD ARMONA RD	SHEET 32 OF 37	
CT2552	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 33 OF 37	
CT2553	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - GRADE SEPARATION PROFILE - HOUSTON AVE	SHEET 34 OF 37	
CT 3355	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 35 OF 37	
CT 3356	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 36 OF 37	
CT 3357	HANFORD WEST BYPASS SUBSECTION - ALIGNMENT HW2 (BELOW-GRADE) - MODIFIED - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 37 OF 37	

ALIGNMENT K1 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0220	KAWEAH SUBSECTION - ALIGNMENT K1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 23	1
CT1350	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION LAYOUT - 12TH AVE / IDAHO AVE	SHEET 2 OF 23	
CT1351	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION LAYOUT - 12TH AVE / IDAHO AVE	SHEET 3 OF 23	
CT1354	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 4 OF 23	
CT1356	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION LAYOUT - S 11TH AVE	SHEET 5 OF 23	
CT1359	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 6 OF 23	
CT1360	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION LAYOUT - KANSAS AVE / S 10TH ST	SHEET 7 OF 23	
CT1361	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION LAYOUT - LANSING AVE	SHEET 8 OF 23	
CT2350	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 9 OF 23	
CT2351	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 10 OF 23	
CT2352	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - 12TH AVE (AT IDAHO AVE)	SHEET 11 OF 23	
CT2353	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - 12TH AVE (AT IDAHO AVE)	SHEET 12 OF 23	
CT2354	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 13 OF 23	
CT2355	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 14 OF 23	
CT2356	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - 11TH AVE	SHEET 15 OF 23	
CT2357	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - 11TH AVE	SHEET 16 OF 23	
CT2358	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - DRIVEWAYS (AT 11TH AVE)	SHEET 17 OF 23	
CT2359	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 18 OF 23	
CT2360	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - KANSAS AVE / S 10TH AVE	SHEET 19 OF 23	
CT2361	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - LANSING AVE	SHEET 20 OF 23	
CT2362	KAWEAH SUBSECTION - ALIGNMENT K1 - GRADE SEPARATION PROFILE - LANSING AVE	SHEET 21 OF 23	
CT 3340	KAWEAH SUBSECTION - ALIGNMENT K1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 22 OF 23	
CT 3341	KAWEAH SUBSECTION - ALIGNMENT K1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 23 OF 23	

ALIGNMENT K2 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0230	KAWEAH SUBSECTION - ALIGNMENT K2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 27	1
CT1370	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - 12TH AVE / IDAHO AVE	SHEET 2 OF 27	
CT1371	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - 12TH AVE / IDAHO AVE	SHEET 3 OF 27	
CT1374	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 4 OF 27	
CT1376	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - S 11TH AVE/ KENT AVE	SHEET 5 OF 27	
CT1377	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - S 11TH AVE/ KENT AVE	SHEET 6 OF 27	
CT1378	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 7 OF 27	
CT1379	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - LANSING AVE	SHEET 8 OF 27	
CT1381	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 9 OF 27	
CT1382	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 10 OF 27	
CT2370	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 11 OF 27	
CT2371	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 12 OF 27	
CT2372	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - 12TH AVE (AT IDAHO)	SHEET 13 OF 27	
CT2373	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - 12TH AVE (AT IDAHO)	SHEET 14 OF 27	
CT2374	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 15 OF 27	
CT2375	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 16 OF 27	
CT2376	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - 11TH AVE	SHEET 17 OF 27	
CT2377	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - KENT AVE	SHEET 18 OF 27	
CT2378	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 19 OF 27	
CT2379	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 20 OF 27	
CT2380	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - LANSING AVE	SHEET 21 OF 27	
CT2381	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - LANSING AVE	SHEET 22 OF 27	
CT2382	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 23 OF 27	
CT2383	KAWEAH SUBSECTION - ALIGNMENT K2 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 24 OF 27	
CT3350	KAWEAH SUBSECTION - ALIGNMENT K2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 25 OF 27	
CT3351	KAWEAH SUBSECTION - ALIGNMENT K2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 26 OF 27	
CT3352	KAWEAH SUBSECTION - ALIGNMENT K2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 27 OF 27	

ALIGNMENT K3 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0060	KAWEAH SUBSECTION - ALIGNMENT K3 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 27	1
CT1201	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 2 OF 27	
CT1202	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 3 OF 27	
CT1203	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 4 OF 27	
CT1204	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 5 OF 27	
CT1205	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (JERSEY AVE)	SHEET 6 OF 27	
CT1206	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (JERSEY AVE)	SHEET 7 OF 27	
CT1207	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 8 OF 27	
CT1208	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 9 OF 27	
CT1209	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 10 OF 27	
CT1210	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 11 OF 27	
CT1211	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 12 OF 27	
CT1212	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 13 OF 27	
CT2201	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 14 OF 27	
CT2202	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 15 OF 27	
CT2203	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 16 OF 27	
CT2204	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 17 OF 27	
CT2205	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 (JERSEY AVE)	SHEET 18 OF 27	
CT2206	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 (JERSEY AVE)	SHEET 19 OF 27	
CT2207	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - KENT AVE	SHEET 20 OF 27	
CT2208	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - KENT AVE	SHEET 21 OF 27	
CT2209	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 22 OF 27	
CT2210	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 23 OF 27	
CT2211	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 24 OF 27	
CT2212	KAWEAH SUBSECTION - ALIGNMENT K3 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 25 OF 27	
CT3220	KAWEAH SUBSECTION - ALIGNMENT K3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 26 OF 27	
CT3221	KAWEAH SUBSECTION - ALIGNMENT K3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 27 OF 27	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
CHECKED BY A. BRUNDAGE
IN CHARGE R. COFFIN
DATE 12/31/13

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CALIFORNIA HIGH-SPEED TRAIN

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SHEET 3 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1005
SCALE NO SCALE
SHEET NO. 5 OF 11

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ALIGNMENT K4 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0065	KAWEAH SUBSECTION - ALIGNMENT K4 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 23	1
CT1220	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 2 OF 23	
CT1221	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - IDAHO AVE	SHEET 3 OF 23	
CT1222	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 4 OF 23	
CT1223	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 5 OF 23	
CT1224	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (JERSEY AVE)	SHEET 6 OF 23	
CT1225	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - STATE ROUTE 43 (JERSEY AVE)	SHEET 7 OF 23	
CT1226	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 8 OF 23	
CT1227	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - KENT AVE	SHEET 9 OF 23	
CT1228	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 10 OF 23	
CT1229	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 11 OF 23	
CT2220	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 12 OF 23	
CT2221	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 13 OF 23	
CT2222	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 14 OF 23	
CT2223	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 15 OF 23	
CT2224	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 (JERSEY AVE)	SHEET 16 OF 23	
CT2225	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 (JERSEY AVE)	SHEET 17 OF 23	
CT2226	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION PROFILE - KENT AVE	SHEET 18 OF 23	
CT2227	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION PROFILE - KENT AVE	SHEET 19 OF 23	
CT2228	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 20 OF 23	
CT2229	KAWEAH SUBSECTION - ALIGNMENT K4 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 21 OF 23	
CT3230	KAWEAH SUBSECTION - ALIGNMENT K4 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 22 OF 23	
CT3231	KAWEAH SUBSECTION - ALIGNMENT K4 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 23 OF 23	

ALIGNMENT K5 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0235	KAWEAH SUBSECTION - ALIGNMENT K5 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 30	1
CT1553	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 2 OF 30	
CT1554	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - 12TH AVE / IDAHO AVE	SHEET 3 OF 30	
CT1555	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - 12TH AVE/ IDAHO AVE	SHEET 4 OF 30	
CT1556	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 5 OF 30	
CT1557	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 6 OF 30	
CT1560	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - S 11TH AVE	SHEET 7 OF 30	
CT1561	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - S 11TH AVE	SHEET 8 OF 30	
CT1566	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 9 OF 30	
CT1567	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 10 OF 30	
CT1570	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - LANSING AVE	SHEET 11 OF 30	
CT1571	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION LAYOUT - LANSING AVE	SHEET 12 OF 30	
CT2555	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - IONA AVE	SHEET 13 OF 30	
CT2556	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - IONA AVE	SHEET 14 OF 30	
CT2557	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - 12TH AVE	SHEET 15 OF 30	
CT2558	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 16 OF 30	
CT2559	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 17 OF 30	
CT2560	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - 12TH AVE (IDAHO AVE)	SHEET 18 OF 30	
CT2561	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - 12TH AVE (IDAHO AVE)	SHEET 19 OF 30	
CT2562	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 20 OF 30	
CT2563	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 21 OF 30	
CT2564	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - S 11TH AVE	SHEET 22 OF 30	
CT2565	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - S 11TH AVE	SHEET 23 OF 30	
CT2566	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - 10TH AVE	SHEET 24 OF 30	
CT2567	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 25 OF 30	
CT2568	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 26 OF 30	
CT2569	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - LANSING AVE	SHEET 27 OF 30	
CT2570	KAWEAH SUBSECTION - ALIGNMENT K5 - GRADE SEPARATION PROFILE - LANSING AVE	SHEET 28 OF 30	
CT3360	KAWEAH SUBSECTION - ALIGNMENT K5 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 29 OF 30	
CT3361	KAWEAH SUBSECTION - ALIGNMENT K5 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 30 OF 30	

ALIGNMENT K6 - KAWEAH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0237	KAWEAH SUBSECTION - ALIGNMENT K6 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 35	1
CT1653	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - IONA AVE	SHEET 2 OF 35	
CT1654	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - 12TH AVE/ IDAHO AVE	SHEET 3 OF 35	
CT1655	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - 12TH AVE/ IDAHO AVE	SHEET 4 OF 35	
CT1656	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 5 OF 35	
CT1657	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - JACKSON AVE	SHEET 6 OF 35	
CT1660	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - S 11TH AVE	SHEET 7 OF 35	
CT1661	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - KENT AVE/ S 11TH AVE	SHEET 8 OF 35	
CT1662	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - S 11TH AVE	SHEET 9 OF 35	
CT1666	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - KANSAS AVE	SHEET 10 OF 35	
CT1670	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - LANSING AVE	SHEET 11 OF 35	
CT1671	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - LANSING AVE	SHEET 12 OF 35	
CT1674	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 13 OF 35	
CT1675	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 14 OF 35	
CT2649	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - IONA AVE	SHEET 15 OF 35	
CT2650	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - IONA AVE	SHEET 16 OF 35	
CT2651	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - 12TH AVE	SHEET 17 OF 35	
CT2652	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 18 OF 35	
CT2653	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - IDAHO AVE	SHEET 19 OF 35	
CT2654	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - 12TH AVE AVE	SHEET 20 OF 35	
CT2655	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - 12TH AVE AVE	SHEET 21 OF 35	
CT2656	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 22 OF 35	
CT2657	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - JACKSON AVE	SHEET 23 OF 35	
CT2658	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - S 11TH AVE	SHEET 24 OF 35	
CT2659	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - S 11TH AVE	SHEET 25 OF 35	
CT2660	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - KENT AVE	SHEET 26 OF 35	
CT2661	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - KANSAS AVE	SHEET 27 OF 35	
CT2662	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - 10TH AVE CONNECTOR	SHEET 28 OF 35	
CT2663	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - LANSING AVE	SHEET 29 OF 35	
CT2664	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - LANSING AVE	SHEET 30 OF 35	
CT2665	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 31 OF 35	
CT2666	KAWEAH SUBSECTION - ALIGNMENT K6 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 32 OF 35	
CT3365	KAWEAH SUBSECTION - ALIGNMENT K6 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 33 OF 35	
CT3366	KAWEAH SUBSECTION - ALIGNMENT K6 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 34 OF 35	
CT3367	KAWEAH SUBSECTION - ALIGNMENT K6 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 35 OF 35	

ALIGNMENT C1 - CORCORAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0070	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 18	2
CT1230	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 2 OF 18	
CT1231	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 3 OF 18	
CT1232	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - AVE 144	SHEET 4 OF 18	
CT1233	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION LAYOUT - AVE 144	SHEET 5 OF 18	
CT2230	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 6 OF 18	
CT2231	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION PROFILE - NEVADA AVE CONNECTOR	SHEET 7 OF 18	
CT2232	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION PROFILE - AVE 144	SHEET 8 OF 18	
CT2233	CORCORAN SUBSECTION - ALIGNMENT C1 - GRADE SEPARATION PROFILE - AVE 144	SHEET 9 OF 18	
CR1201	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 10 OF 18	
CR1202	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 11 OF 18	
CR1203	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 12 OF 18	
CR1204	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY LAYOUT - SANTA FE AVE	SHEET 13 OF 18	
CR2201	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE - SANTA FE AVE	SHEET 14 OF 18	
CR2202	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE - SANTA FE AVE	SHEET 15 OF 18	
CR2203	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE - SANTA FE AVE	SHEET 16 OF 18	
CR2204	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY PROFILE - SANTA FE AVE	SHEET 17 OF 18	
CT3040	CORCORAN SUBSECTION - ALIGNMENT C1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 18 OF 18	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
CHECKED BY G. SCHLERETH
IN CHARGE R. COFFIN
DATE 12/31/13

DRAFT 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 4 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1006
SCALE NO SCALE
SHEET NO. 6 OF 11

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ALIGNMENT C2 - CORCORAN BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0075	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 18	2
CT1239	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - NEVADA AVE	SHEET 2 OF 18	
CT1240	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - NEVADA AVE CONNECTOR	SHEET 3 OF 18	
CT1244	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - CORCORAN HWY	SHEET 4 OF 18	
CT1248	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION LAYOUT - WHITLEY AVE/ STATE ROUTE 137	SHEET 5 OF 18	
CT2239	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 6 OF 18	
CT2240	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - NEVADA AVE	SHEET 7 OF 18	
CT2244	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - CORCORAN HWY	SHEET 8 OF 18	
CT2245	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - CORCORAN HWY	SHEET 9 OF 18	
CT2246	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - 5TH AVE	SHEET 10 OF 18	
CT2247	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - ORANGE AVE CONNECTOR	SHEET 11 OF 18	
CT2248	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - GRADE SEPARATION PROFILE - WHITLEY AVE / STATE ROUTE 137	SHEET 12 OF 18	
CR1230	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY LAYOUT - NILES AVE	SHEET 13 OF 18	
CR1231	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY LAYOUT - 5 1/2 AVE	SHEET 14 OF 18	
CR2230	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY PROFILE - NILES AVE	SHEET 15 OF 18	
CR2231	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY PROFILE - 5 1/2 AVE	SHEET 16 OF 18	
CT3042	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 17 OF 18	
CT3043	CORCORAN BYPASS SUBSECTION - ALIGNMENT C2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 18 OF 18	

ALIGNMENT C3 - CORCORAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0080	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 43	2
CT1271	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - CHARLES ST	SHEET 2 OF 43	
CT1272	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - CHARLES ST	SHEET 3 OF 43	
CT1273	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - OTIS AVE	SHEET 4 OF 43	
CT1274	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - OTIS AVE	SHEET 5 OF 43	
CT1275	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - OTIS AVE	SHEET 6 OF 43	
CT1280	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 7 OF 43	
CT1281	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 8 OF 43	
CT1282	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 9 OF 43	
CT1283	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 10 OF 43	
CT1284	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - STATE ROUTE 43	SHEET 11 OF 43	
CT1294	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - AVE 148	SHEET 12 OF 43	
CT1295	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - AVE 148 & RD 24	SHEET 13 OF 43	
CT1296	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION LAYOUT - RD 24	SHEET 14 OF 43	
CT2271	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - CHARLES ST	SHEET 15 OF 43	
CT2272	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - CHARLES ST	SHEET 16 OF 43	
CT2273	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - SANTA FE AVE	SHEET 17 OF 43	
CT2274	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - OTIS AVE	SHEET 18 OF 43	
CT2275	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - OTIS AVE	SHEET 19 OF 43	
CT2276	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - OTIS AVE	SHEET 20 OF 43	
CT2277	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - CONNECTIONS TO OTIS AVE	SHEET 21 OF 43	
CT2278	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - CONNECTIONS TO OTIS AVE	SHEET 22 OF 43	
CT2279	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - LETTS AVE	SHEET 23 OF 43	
CT2284	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (SB)	SHEET 24 OF 43	
CT2285	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (SB)	SHEET 25 OF 43	
CT2286	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (SB)	SHEET 26 OF 43	
CT2287	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (SB)	SHEET 27 OF 43	
CT2288	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (SB)	SHEET 28 OF 43	
CT2289	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (NB)	SHEET 29 OF 43	
CT2290	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (NB)	SHEET 30 OF 43	
CT2291	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (NB)	SHEET 31 OF 43	
CT2292	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (NB)	SHEET 32 OF 43	
CT2293	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 & MAINLINE (NB)	SHEET 33 OF 43	
CT2294	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 SB OFF RAMP	SHEET 34 OF 43	
CT2295	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 SB ON RAMP	SHEET 35 OF 43	

ALIGNMENT C3 - CORCORAN SUBSECTION CONT'D.

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CT2296	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 NB OFF RAMP	SHEET 36 OF 43	2
CT2297	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 43 NB ON RAMP	SHEET 37 OF 43	
CT2298	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 148	SHEET 38 OF 43	
CT2299	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - AVE 148	SHEET 39 OF 43	
CT2300	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - RD 24	SHEET 40 OF 43	
CT2301	CORCORAN SUBSECTION - ALIGNMENT C3 - GRADE SEPARATION PROFILE - RD 24	SHEET 41 OF 43	
CT3044	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 42 OF 43	
CT3045	CORCORAN SUBSECTION - ALIGNMENT C3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 43 OF 43	

ALIGNMENT P - PIXLEY SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0100	PIXLEY SUBSECTION - ALIGNMENT P - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 16	2
CT1401	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION LAYOUT - AVE 128	SHEET 2 OF 16	
CT1411	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION LAYOUT - HESSE AVE	SHEET 3 OF 16	
CT1421	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION LAYOUT - AVE 112	SHEET 4 OF 16	
CT1431	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION LAYOUT - AVE 88	SHEET 5 OF 16	
CT2401	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 128	SHEET 6 OF 16	
CT2402	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 128	SHEET 7 OF 16	
CT2411	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - HESSE AVE	SHEET 8 OF 16	
CT2412	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - HESSE AVE	SHEET 9 OF 16	
CT2421	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 112	SHEET 10 OF 16	
CT2422	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 112	SHEET 11 OF 16	
CT2423	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 112 CONNECTOR	SHEET 12 OF 16	
CT2431	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 88	SHEET 13 OF 16	
CT2432	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 88	SHEET 14 OF 16	
CT2433	PIXLEY SUBSECTION - ALIGNMENT P - GRADE SEPARATION PROFILE - AVE 88 CONNECTOR	SHEET 15 OF 16	
CT3060	PIXLEY SUBSECTION - ALIGNMENT P - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 16 OF 16	

ALIGNMENT A1 - ALLENSWORTH BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0110	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 20	2
CT1501	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - COUNTY RD J22	SHEET 2 OF 20	
CT1511	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - GARCES HWY	SHEET 3 OF 20	
CT1512	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - SCOFIELD AVE	SHEET 4 OF 20	
CT1513	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - SCOFIELD AVE	SHEET 5 OF 20	
CT1521	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - POND RD	SHEET 6 OF 20	
CT1522	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - POND RD	SHEET 7 OF 20	
CT1523	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - MAGNOLIA AVE	SHEET 8 OF 20	
CT1531	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION LAYOUT - PETERSON RD	SHEET 9 OF 20	
CT2501	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - COUNTY RD J22	SHEET 10 OF 20	
CT2511	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - GARCES HWY	SHEET 11 OF 20	
CT2512	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - SCOFIELD AVE	SHEET 12 OF 20	
CT2513	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - SCOFIELD AVE	SHEET 13 OF 20	
CT2514	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - SCOFIELD AVE	SHEET 14 OF 20	
CT2521	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - POND RD	SHEET 15 OF 20	
CT2522	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - POND RD	SHEET 16 OF 20	
CT2523	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - MAGNOLIA AVE	SHEET 17 OF 20	
CT2524	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - MAGNOLIA AVE	SHEET 18 OF 20	
CT2531	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - GRADE SEPARATION PROFILE - PETERSON RD	SHEET 19 OF 20	
CT3070	ALLENSWORTH BYPASS SUBSECTION - ALIGNMENT A1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 20 OF 20	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
CHECKED BY A. BRUNDAGE
IN CHARGE R. COFFIN
DATE 12/31/13

DRAFT 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 5 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1007
SCALE NO SCALE
SHEET NO. 7 OF 11

ALIGNMENT A2 - ALLENSWORTH SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0120	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 21	2
CT1601	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - COUNTY RD J22	SHEET 2 OF 21	
CT1602	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - COUNTY RD J22	SHEET 3 OF 21	
CT1611	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - AVE 24	SHEET 4 OF 21	
CT1621	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - GARCES HWY	SHEET 5 OF 21	
CT1622	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - GARCES HWY	SHEET 6 OF 21	
CT1631	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - SCHUSTER RD	SHEET 7 OF 21	
CT1632	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - SCHUSTER RD	SHEET 8 OF 21	
CT1641	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - PETERSON RD	SHEET 9 OF 21	
CT1642	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION LAYOUT - PETERSON RD	SHEET 10 OF 21	
CT2601	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - COUNTY RD J22	SHEET 11 OF 21	
CT2602	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - COUNTY RD J22	SHEET 12 OF 21	
CT2611	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - AVE 24	SHEET 13 OF 21	
CT2612	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - AVE 24	SHEET 14 OF 21	
CT2621	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - GARCES HWY	SHEET 15 OF 21	
CT2622	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - GARCES HWY	SHEET 16 OF 21	
CT2631	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - SCHUSTER RD	SHEET 17 OF 21	
CT2632	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - SCHUSTER RD	SHEET 18 OF 21	
CT2641	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - PETERSON RD	SHEET 19 OF 21	
CT2642	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - GRADE SEPARATION PROFILE - PETERSON RD	SHEET 20 OF 21	
CT3080	THROUGH ALLENSWORTH SUBSECTION - ALIGNMENT A2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 21 OF 21	

ALIGNMENT L1 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0130	POSO CREEK SUBSECTION - ALIGNMENT L1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 1	2

ALIGNMENT L2 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0140	POSO CREEK SUBSECTION - ALIGNMENT L2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 7	2
CT1751	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEPARATION LAYOUT - STATE ROUTE 46	SHEET 2 OF 7	
CT1752	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEPARATION LAYOUT - STATE ROUTE 46	SHEET 3 OF 7	
CT2751	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 46	SHEET 4 OF 7	
CT2752	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 46	SHEET 5 OF 7	
CT2753	POSO CREEK SUBSECTION - ALIGNMENT L2 - GRADE SEPARATION PROFILE - ROOT AVE	SHEET 6 OF 7	
CT3100	POSO CREEK SUBSECTION - ALIGNMENT L2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 7 OF 7	

ALIGNMENT L3 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0150	POSO CREEK SUBSECTION - ALIGNMENT L3 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 1	2

ALIGNMENT L4 - POSO CREEK SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0160	POSO CREEK SUBSECTION - ALIGNMENT L4 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 7	2
CT1851	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEPARATION LAYOUT - STATE ROUTE 46	SHEET 2 OF 7	
CT1852	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEPARATION LAYOUT - STATE ROUTE 46	SHEET 3 OF 7	
CT2851	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 46	SHEET 4 OF 7	
CT2852	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - STATE ROUTE 46	SHEET 5 OF 7	
CT2853	POSO CREEK SUBSECTION - ALIGNMENT L4 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROOT AVE	SHEET 6 OF 7	
CT3120	POSO CREEK SUBSECTION - ALIGNMENT L4 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 7 OF 7	

ALIGNMENT WS1 - WASCO-SHAFTER SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0170	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 67	2
CT1900	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - MCCOMBS AVE	SHEET 2 OF 67	
CT1901	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - MCCOMBS AVE	SHEET 3 OF 67	

ALIGNMENT WS1 - WASCO-SHAFTER SUBSECTION CONT'D.

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CT1903	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - KIMBERLINA RD	SHEET 4 OF 67	2
CT1904	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - MERCED AVE	SHEET 5 OF 67	
CT1905	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - MERCED AVE	SHEET 6 OF 67	
CT1906	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - POPLAR AVE	SHEET 7 OF 67	
CT1907	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - POPLAR AVE	SHEET 8 OF 67	
CT1909	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - FRESNO AVE	SHEET 9 OF 67	
CT1910	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - FRESNO AVE	SHEET 10 OF 67	
CT1912	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - BURBANK ST	SHEET 11 OF 67	
CT1913	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - BURBANK ST	SHEET 12 OF 67	
CT1915	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - 7TH STANDARD RD	SHEET 13 OF 67	
CT1917	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - KRATZMEYER RD	SHEET 14 OF 67	
CT1919	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - RENFRO RD	SHEET 15 OF 67	
CT1920	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION LAYOUT - RENFRO RD	SHEET 16 OF 67	
CT2900	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - MCCOMBS AVE	SHEET 17 OF 67	
CT2901	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - MCCOMBS AVE	SHEET 18 OF 67	
CT2902	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - ANNIN CONNECTOR AND MCCOMBS CONNECTOR	SHEET 19 OF 67	
CT2903	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - KIMBERLINA RD	SHEET 20 OF 67	
CT2904	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - MERCED AVE	SHEET 21 OF 67	
CT2905	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - MERCED AVE	SHEET 22 OF 67	
CT2906	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - POPLAR AVE	SHEET 23 OF 67	
CT2907	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - POPLAR AVE AND POPLAR CONNECTOR	SHEET 24 OF 67	
CT2909	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - FRESNO AVE	SHEET 25 OF 67	
CT2910	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - FRESNO AVE	SHEET 26 OF 67	
CT2912	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - BURBANK ST	SHEET 27 OF 67	
CT2913	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - BURBANK ST	SHEET 28 OF 67	
CT2914	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - BURBANK CONNECTOR	SHEET 29 OF 67	
CT2915	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - 7TH STANDARD RD	SHEET 30 OF 67	
CT2917	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - KRATZMEYER RD	SHEET 31 OF 67	
CT2918	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - KRATZMEYER RD AND KRATZMEYER CONNECTOR	SHEET 32 OF 67	
CT2919	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - RENFRO RD	SHEET 33 OF 67	
CT2920	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - GRADE SEPARATION PROFILE - RENFRO RD	SHEET 34 OF 67	
CR1900	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 35 OF 67	
CR1901	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 36 OF 67	
CR1902	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 37 OF 67	
CR1903	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 38 OF 67	
CR1904	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 39 OF 67	
CR1905	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 40 OF 67	
CR1906	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 41 OF 67	
CR1907	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 42 OF 67	
CR1908	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 43 OF 67	
CR1909	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 44 OF 67	
CR1910	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 45 OF 67	
CR1911	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 46 OF 67	
CR1912	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 47 OF 67	
CR1913	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 48 OF 67	
CR1914	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 49 OF 67	
CR2900	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 50 OF 67	
CR2901	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 51 OF 67	
CR2902	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 52 OF 67	
CR2903	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 53 OF 67	
CR2904	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 54 OF 67	
CR2905	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 55 OF 67	
CR2906	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 56 OF 67	
CR2907	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 57 OF 67	
CR2908	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 58 OF 67	
CR2909	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 59 OF 67	
CR2910	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 60 OF 67	
CR2911	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 61 OF 67	
CR2912	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 62 OF 67	
CR2913	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 63 OF 67	
CR2914	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 64 OF 67	
CR2915	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 65 OF 67	
CT3130	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 66 OF 67	
CT3131	THROUGH WASCO-SHAFTER SUBSECTION - ALIGNMENT WS1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 67 OF 67	

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
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DRAWING NO. CB1008
SCALE NO SCALE
SHEET NO. 8 OF 11

ALIGNMENT WS2 - WASCO-SHAFTER BYPASS SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0180	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 60	
CT1931	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KIMBERLINA RD	SHEET 2 OF 60	
CT1932	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KIMBERLINA RD & POPLAR AVE	SHEET 3 OF 60	
CT1933	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - POPLAR AVE	SHEET 4 OF 60	
CT1941	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - SHAFTER AVE	SHEET 5 OF 60	
CT1942	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - SHAFTER AVE	SHEET 6 OF 60	
CT1951	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - BEECH AVE	SHEET 7 OF 60	
CT1952	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - BEECH AVE & FRESNO AVE	SHEET 8 OF 60	
CT1961	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - EAST LERDO HWY	SHEET 9 OF 60	
CT1962	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - EAST LERDO HWY & CHERRY AVE	SHEET 10 OF 60	
CT1963	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - CHERRY AVE & RIVERSIDE ST	SHEET 11 OF 60	
CT1964	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - CHERRY AVE & RIVERSIDE ST	SHEET 12 OF 60	
CT1970	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - 7TH STANDARD RD	SHEET 13 OF 60	
CT1971	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KRATZMEYER RD	SHEET 14 OF 60	
CT1972	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - KRATZMEYER RD	SHEET 15 OF 60	
CT1975	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - RENFRO RD	SHEET 16 OF 60	
CT1976	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION LAYOUT - RENFRO RD	SHEET 17 OF 60	
CT2931	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KIMBERLINA RD	SHEET 18 OF 60	
CT2932	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KIMBERLINA RD	SHEET 19 OF 60	
CT2933	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - POPLAR AVE	SHEET 20 OF 60	
CT2934	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - POPLAR AVE	SHEET 21 OF 60	
CT2935	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - POPLAR AVE	SHEET 22 OF 60	
CT2941	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - SHAFTER AVE	SHEET 23 OF 60	
CT2942	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - SHAFTER AVE	SHEET 24 OF 60	
CT2951	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - BEECH AVE	SHEET 25 OF 60	
CT2952	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - BEECH AVE	SHEET 26 OF 60	
CT2953	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - FRESNO AVE	SHEET 27 OF 60	
CT2961	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - EAST LERDO HWY	SHEET 28 OF 60	
CT2962	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - EAST LERDO HWY	SHEET 29 OF 60	
CT2963	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - CHERRY AVE	SHEET 30 OF 60	2
CT2964	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - CHERRY AVE	SHEET 31 OF 60	
CT2965	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RIVERSIDE ST	SHEET 32 OF 60	
CT2966	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RIVERSIDE ST	SHEET 33 OF 60	
CT2967	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RIVERSIDE ST	SHEET 34 OF 60	
CT2970	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - 7TH STANDARD RD	SHEET 35 OF 60	
CT2971	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KRATZMEYER RD	SHEET 36 OF 60	
CT2972	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KRATZMEYER RD	SHEET 37 OF 60	
CT2973	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - KRATZMEYER CONNECTOR AND NORIEGA ROAD	SHEET 38 OF 60	
CT2977	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RENFRO RD	SHEET 39 OF 60	
CT2978	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - GRADE SEPARATION PROFILE - RENFRO RD	SHEET 40 OF 60	
CR1984	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - MANNEL AVE & MERCED AVE	SHEET 41 OF 60	
CR1985	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 42 OF 60	
CR1986	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 43 OF 60	
CR1987	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 44 OF 60	
CR1988	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 45 OF 60	
CR1989	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 46 OF 60	
CR1990	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 47 OF 60	
CR1991	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY LAYOUT - SANTA FE WAY & RENFRO RD	SHEET 48 OF 60	
CR2984	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - MANNEL AVE & MERCED AVE	SHEET 49 OF 60	
CR2985	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 50 OF 60	
CR2986	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 51 OF 60	
CR2987	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 52 OF 60	
CR2988	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 53 OF 60	
CR2989	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 54 OF 60	
CR2990	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 55 OF 60	
CR2991	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 56 OF 60	
CR2992	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 57 OF 60	
CT3140	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 58 OF 60	
CT3141	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 59 OF 60	
CT3142	WASCO-SHAFTER BYPASS SUBSECTION - ALIGNMENT WS2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 60 OF 60	

ALIGNMENT B1 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0190	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 17	
CT1980	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 17	
CT1981	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 17	
CT2980	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 4 OF 17	
CT2981	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 5 OF 17	
CT2982	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - LONE OAK RD AND JEWETTA RD	SHEET 6 OF 17	
CR1949	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 7 OF 17	
CR1950	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - ENGER ST	SHEET 8 OF 17	2
CR1951	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - VERDUGO LN	SHEET 9 OF 17	
CR1952	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - SLIKKER DR	SHEET 10 OF 17	
CR1953	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - N-ST PEDESTRIAN BRIDGE	SHEET 11 OF 17	
CR1954	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY LAYOUT - EAST BAKERSFIELD DETAIL	SHEET 12 OF 17	
CR2949	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY PROFILE - SANTA FE WAY	SHEET 13 OF 17	
CR2950	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY PROFILE - ENGER ST AND VERDUGO LN	SHEET 14 OF 17	
CR2952	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY PROFILE - SLIKKER DR	SHEET 15 OF 17	
CT3170	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 16 OF 17	
CT3171	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B1 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 17 OF 17	

ALIGNMENT B2 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0200	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 23	
CT1982	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/STATE ROUTE 58	SHEET 2 OF 23	
CT1983	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/STATE ROUTE 58	SHEET 3 OF 23	
CT2982	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 4 OF 23	
CT2983	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 5 OF 23	
CT2984	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - LONE OAK DR AND JEWETTA AVE	SHEET 6 OF 23	
CR1959	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 7 OF 23	
CR1960	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - ENGER ST	SHEET 8 OF 23	
CR1961	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - N ST PEDESTRIAN BRIDGE	SHEET 9 OF 23	
CR1962	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - EAST CALIFORNIA AVE	SHEET 10 OF 23	
CR1963	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - VERDUGO LN	SHEET 11 OF 23	2
CR1964	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - SLIKKER DR / ART ST / SHELLABARGER RD	SHEET 12 OF 23	
CR1966	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - BRIMHALL RD / WESTSIDE PKY / COFFEE RD OFF RAMP	SHEET 13 OF 23	
CR1967	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY LAYOUT - WESTSIDE PKY / COFFEE RD OFF RAMP	SHEET 14 OF 23	
CR2959	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - SANTA FE WAY	SHEET 15 OF 23	
CR2960	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - ENGER ST AND VERDUGO LN	SHEET 16 OF 23	
CR2962	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - EAST CALIFORNIA AVE	SHEET 17 OF 23	
CR2964	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - SLIKKER DR / ART ST / SHELLABARGER RD	SHEET 18 OF 23	
CR2966	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - BRIMHALL RD	SHEET 19 OF 23	
CR2967	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY PROFILE - WESTSIDE PKY / COFFEE RD OFF RAMP	SHEET 20 OF 23	
CT3160	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 21 OF 23	
CT3165	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 22 OF 23	
CT3180	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B2 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTIONS	SHEET 23 OF 23	

ALIGNMENT B3 - BAKERSFIELD URBAN SUBSECTION

DRAWING No	DRAWING DESCRIPTION	SHEET No.	PART No.
CB0240	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY/GRADE SEPARATION - KEY MAP	SHEET 1 OF 19	
CT1990	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/ STATE ROUTE 58	SHEET 2 OF 19	
CT1991	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - GRADE SEPARATION LAYOUT - ROSEDALE HWY/ STATE ROUTE 58	SHEET 3 OF 19	
CT2990	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 4 OF 19	
CT2991	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - GRADE SEP PROFILE & SUPERELEVATION DIAGRAM - ROSEDALE HWY/ STATE ROUTE 58	SHEET 5 OF 19	
CT2992	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - GRADE SEPARATION PROFILE - LONE OAK ROAD AND JEWETTA RD	SHEET 6 OF 19	
CR1970	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - SANTA FE WAY	SHEET 7 OF 19	
CR1971	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - ENGER ST	SHEET 8 OF 19	
CR1972	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - VERDUGO LN	SHEET 9 OF 19	
CR1974	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - SLIKKER DR / ART ST / SHELLABARGER RD	SHEET 10 OF 19	2
CR1976	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - BRIMHALL RD / WESTSIDE PKY / COFFEE RD OFF RAMP	SHEET 11 OF 19	
CR1977	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY LAYOUT - BRIMHALL RD / WESTSIDE PKY / COFFEE RD OFF RAMP	SHEET 12 OF 19	
CR2970	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY PROFILE - SANTA FE WAY	SHEET 13 OF 19	
CR2971	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY PROFILE - ENGER AND VERDUGO LN	SHEET 14 OF 19	
CR2974	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY PROFILE - SLIKKER DR / ART ST / SHELLABARGER RD	SHEET 15 OF 19	
CR2976	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY PROFILE - BRIMHALL RD	SHEET 16 OF 19	
CR2967	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY PROFILE - WESTSIDE PKY/ COFFEE RD OFF RAMP	SHEET 17 OF 19	
CT3190	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTION	SHEET 18 OF 19	
CT3165	BAKERSFIELD URBAN SUBSECTION - ALIGNMENT B3 - ROADWAY/GRADE SEPARATION - TYPICAL CROSS SECTION	SHEET 19 OF 19	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY E. SUDHAUSEN
DRAWN BY P. LEES
CHECKED BY A. BRUNDAGE
IN CHARGE R. COFFIN
DATE 12/31/13

DRAFT 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ROADWAY & GRADE SEPARATION
INDEX OF SHEETS
SHEET 7 OF 7

CONTRACT NO. HSR 06-0003
DRAWING NO. CB1009
SCALE NO SCALE
SHEET NO. 9 OF 11

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A

AB	AGGREGATE BASE
ABBC	ASBESTOS BONDED BITUMINOUS COATED
ABM	AIR-BLOWN MORTAR
ABN	ABANDON
ABUT	ABUTMENT
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
ACP	ASBESTOS CEMENT PIPE
ADL	ADDED DEAD LOAD
ADJ	ADJUST
AFES	ALTERNATIVE FLARED END SECTION
AHD	AHEAD
ALT	ALTERNATE
AM	TIME FROM MIDNIGHT TO NOON
AP	ALTERNATIVE PIPE
APC	ALTERNATIVE PIPE CULVERT
APPROX	APPROXIMATE
APU	ALTERNATIVE PIPE UNDERDRAIN
ARS	ACCELERATION RESPONSE SPECTRUM
AR	ACCESS RESTRICTION
AS	AGGREGATE SUBBASE
ASRP	ALUMINUM SPIRAL RIB PIPE
ASSY	ASSEMBLY
ATPB	ASPHALT TREATED PERMEABLE BASE
ATPM	ASPHALT TREATED PERMEABLE MATERIAL
AVE	AVENUE
AVG	AVERAGE
@	AT

B

BAGR	BRIDGE APPROACH GUARD RAILING
BB	BEGINNING OF BRIDGE
BC	BEGIN HORIZONTAL CURVE
BCC	BALANCED CANTILEVER CONSTRUCTION
BCR	BEGIN CURB RETURN
BEG	BEGIN
BIT CTD	BITUMINOUS COATED
BK	BACK
BKF	BACKFILL
BLDG	BUILDING
BLM	BRIDGE-LOG MILE
BLVD	BOULEVARD
BM	BENCH MARK
BND	BOUND
BNSF	BURLINGTON NORTH & SANTA FE
BOT	BOTTOM
BR	BRIDGE
BRG	BEARING
BTU	BRITISH THERMAL UNIT
BVC	BEGIN VERTICAL CURVE
BW	BARBED WIRE

C

CAA	CABLE ANCHOR ASSEMBLY
CAP	CORRUGATED ALUMINUM PIPE
CAPA	CORRUGATED ALUMINUM PIPE ARCH
CAS	CONSTRUCTION AREA SIGN
CB	CONCRETE BARRIER
CBW	CONCRETE BLOCK WALL
C-C	CENTER TO CENTER

C CONTINUED

CHSRA	CALIFORNIA HIGH SPEED RAIL AUTHORITY
CHST	CALIFORNIA HIGH SPEED TRAIN
CHSR	CALIFORNIA HIGH SPEED RAIL
CG	CENTER OF GRAVITY
CHNL	CHANNEL
CI	CAST IRON
CIDH	CAST-IN-DRILLED-HOLE
CIP,C-I-P	CAST-IN-PLACE, CAST IRON PIPE
CIPCP	CAST IN PLACE CONCRETE PIPE
CISS	CAST-IN-STEEL-SHELL
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE, CLASS
CL2	CLASS 2
CL-6	CHAIN LINK FENCE (6 FT)
CLR	CLEAR, CLEARANCE
CM	CORRUGATED METAL
CMP	CORRUGATED METAL PIPE
CO	COUNTY
COL	COLUMN
CONC	CONCRETE
COND	CONDUIT
CONN	CONNECTOR
CONST	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	CLEARANCE POINT
CR	CREEK
CRCP	CONTINUOUS REINFORCED CONCRETE PAVEMENT
CRSP	CONCRETED ROCK SLOPE PROTECTION
CS	CURVE TO SPIRAL
CSP	CORRUGATED STEEL PIPE
CSPA	CORRUGATED STEEL PIPE ARCH
CTB	CEMENT TREATED BASE
CTPB	CEMENT TREATED PERMEABLE BASE
CTPM	CEMENT TREATED PERMEABLE MATERIAL
CTRS	CENTERS
CVFPB	CENTRAL VALLEY FLOOD PROTECTION BOARD
CULV	CULVERT
℄	CENTERLINE

D

D	DEPTH
DD	DOWNDRAIN, DIRECTIVE DRILLING
DBL	DOUBLE
DEG	DEGREE
DEL	DELINEATOR
DET	DETAIL, DETOUR
DF	DOUGLAS FIR
DI	DRAINAGE INLET, DROP INLET
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIST	DISTANCE, DISTRICT
DMBB	DOUBLE METAL BEAM BARRIER
DR	DRIVE
DTBB	DOUBLE THRIE BEAM BARRIER
DWY	DRIVEWAY

E

E	EAST, EASTING
EA	ACTUAL SUPERELEVATION
EU	UNBALANCED SUPERELEVATION

E CONTINUED

EASE	EASEMENT
EB	END OF BRIDGE, EASTBOUND
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
ED	EDGE DRAIN
EDC	EDGE DRAIN CLEANOUT
EDO	EDGE DRAIN OUTLET
EDV	EDGE DRAIN VENT
ELEC	ELECTROLIER
ELECT	ELECTRIC
ELEV	ELEVATION
EMB	EMBANKMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EP	EDGE OF PAVEMENT
EQ	EQUATION, EQUAL
ES	EDGE OF SHOULDER
ETW	EDGE OF TRAVELED WAY
EVC	END VERTICAL CURVE
EW	ENDWALL
EXC	EXCAVATION
EXIST, EX.	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXWY	EXPRESSWAY
EXT	EXTERIOR

F

F & C	FRAME AND COVER
F & G	FRAME AND GRATE
FB	FLOOR BEAM
F-B	FRESNO TO BAKERSFIELD
FDN	FOUNDATION
FEBT	FACING EASTBOUND TRAFFIC
FES	FLARED END SECTION
FF	FILTER FABRIC
FG	FINISHED GRADE
FH	FIRE HYDRANT
FIG	FIGURE
FL	FLOW LINE
FNBT	FACING NORTHBOUND TRAFFIC
FOC	FACE OF CONCRETE
FR RD	FRONTAGE ROAD
FS	FAR SIDE, FINISHED SURFACE
FSBT	FACING SOUTHBOUND TRAFFIC
FT	FOOT, FEET
FTG	FOOTING
FWBT	FACING WESTBOUND TRAFFIC
FWY	FREEWAY
FPLM	FULL SPAN PRECAST LAUNCHING METHOD

G

G	ACCELERATION DUE TO GRAVITY
GA	GAGE
GALV	GALVANIZED
GP	GRADING PLANE
GR	GUARD RAILING
GSP	GALVANIZED STEEL PIPE
GTR	GUTTER

H

H	HEIGHT
HR	HOUR
HD	HORIZONTAL DRAIN
HDWL	HEADWALL
HEX HD	HEXAGONAL HEAD
HMA	HOT MIXED ASPHALT
HORIZ	HORIZONTAL
HP	HINGE POINT, HORSEPOWER
HPS	HIGH PERFORMANCE STEEL
HS	HIGH STRENGTH
HST	HIGH SPEED TRAIN
HSR	HIGH SPEED RAIL
HW	HEADWALL, HIGH WATER
HWM	HIGH WATER MARK
HWY	HIGHWAY

I

IB	IMPORTED BORROW
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH, INCHES
INT	INTERIOR
INV	INVERT
IRR	IRRIGATION

J

JCT	JUNCTION
JP	JOINT POLE
JPCP	JOINTED PLAIN CONCRETE PAVEMENT
JS	JUNCTION STRUCTURE
JT	JOINT

K

K	DISTANCE TO ACHIEVE 1% GRADE CHANGE

L

L	LENGTH
LAT	LATITUDE
LCB	LEAN CONCRETE BASE
LN	LANE
LOC	LOCATION
LOL	LAYOUT LINE
LONG	LONGITUDE
LONGIT	LONGITUDINAL
LS	LENGTH OF SPIRAL
LC	LENGTH OF CURVE
LT	LEFT

M

MAINT	MAINTENANCE
MAX	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
MED	MEDIAN
M-F	MERCED TO FRESNO
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MISC I & S	MISCELLANEOUS IRON AND STEEL
MKR	MARKER
M/L	MAIN LINE (RAILWAY)

M CONTINUED

MOD	MODIFIED, MODIFY
MON	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MPH	MILES PER HOUR
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EARTH
MTL	MATERIAL
MSS	MOVING SCAFFOLDING SYSTEM

N

N	NORTH, NORTHING
NB	NORTHBOUND
NO.	NUMBER (MUST HAVE PERIOD)
NOS.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NTS	NOT TO SCALE
N/A	NOT APPLICABLE

O

OBLR	OBLITERATE
OC	OVERCROSSING
OCS	OVERHEAD CONTACT SYSTEM
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OH	OVERHEAD
O-O	OUT TO OUT
OPP	OPPOSITE

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PED	PEDESTRIAN
PED OC	PEDESTRIAN OVERCROSSING
PED UC	PEDESTRIAN UNDERCROSSING
PERM MTL	PERMEABLE MATERIAL
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POB	POINT OF BEGINNING
POC	POINT OF HORIZONTAL CURVE
POE	POINT OF ENDING
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
GENERAL
ABBREVIATIONS AND LEGENDS
SHEET 1 OF 2

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0010
SCALE NO SCALE
SHEET NO. 10 OF 11

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P CONTINUED

PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED, PARALLEL STATION
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVP	MAINTENANCE VEHICLE PULLOUT

Q

QTY	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
REINF	REINFORCED, REINFORCEMENT, REINFORCING
REL	RELOCATE
REPL	REPLACEMENT
RET	RETAINING
REV	REVISED
RDWY	ROADWAY
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION
RT	RIGHT
RTE	ROUTE
RW	REDWOOD, RETAINING WALL
R/W, ROW	RIGHT OF WAY
RWY	RAILWAY

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
SALV	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SPIRAL TO CURVE
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
SEC	SECOND
SECT	SECTION
SEP	SEPARATION
SG	SUBGRADE
SHLD	SHOULDER
SHT	SHEET
SIM	SIMILAR
S	STATION LINE
SM	SELECTED MATERIAL
SPEC	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE, SPIRAL TO SPIRAL

S CONTINUED

SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
SR	STATE ROUTE
ST	STREET, SPIRAL TO TANGENT
STA	STATION
STBB	SINGLE THRIE BEAM BARRIER
STD	STANDARD
STR	STRUCTURE
SRS	STAND ALONE RADIO SITE
SURF	SURFACING
SW	SIDEWALK, SOUND WALL
SWR	SEWER
SWS	SWITCHING STATION
SYM	SYMMETRICAL
S4S	SURFACE 4 SIDES
SJVR	SAN JOAQUIN VALLEY RAILROAD

T

T	SEMI-TANGENT
TAB	TABLET
TAN	TANGENT
TBB	THRIE BEAM BARRIER
TBR	TIMBER
TC	TOP OF CURB, TANGENT TO CURVE
TCB	TRAFFIC CONTROL BOX
TEL	TELEPHONE
TEMP	TEMPORARY
TG	TOP OF GRADE
TOT	TOTAL
TM	TECHNICAL MEMORANDUM
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
TPSS	TRACTION POWER SUPPLY STATION
TRANS	TRANSITION, TRANSVERSE
TS	TRAFFIC SIGNAL, TUBULAR STEEL, TANGET TO SPIRAL
TYP	TYPICAL
TOR	TOP OF RAIL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS
UPRR	UNION PACIFIC RAILROAD
USFWS	UNITED STATES FISH AND WILDLIFE SERVICE

V

V	VALVE, DESIGN SPEED
VAR	VARIABLE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VIA	VIADUCT
VOL	VOLUME

W

W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WT	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE
W/	WITH

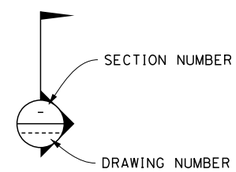
X

X SEC	CROSS SECTION
XING	CROSSING

Y

YR	YEAR
YRS	YEARS

LEGEND



—-E—	PROPOSED ELECTRICITY LINE
—-e—	EXISTING ELECTRICITY LINE
—-e—(oh)—	EXISTING OVERHEAD ELECTRICITY LINE
—-E—(OH)—	PROPOSED OVERHEAD ELECTRICTY LINE
— — —	PROPOSED HST RIGHT OF WAY
— — — —	PROPOSED HST TRACK CENTERLINE
▲—▲	RETAINING WALL
- - - - - - -	TOE OF SLOPE / TOP OF CUT

CONTROL LINE EXAMPLE "A" LINE

255+00 260+00 265+00

OR	TRACK (PLAN AND ELEVATION)
REL	TRACK TO BE REMOVED AND RELOCATED PER BNSF
	REMOVE BASE & SURFACING
	SOUND BARRIER (POTENTIAL)
	DIRECTION OF FLOW
	WATER SURFACE

GENERAL NOTES

1. TRACK PROFILE IS DESIGNED AS TOP OF THE LOW RAIL. VERTICAL CLEARANCE REQUIREMENTS ARE MEASURED FROM THE TOP OF THE HIGH RAIL ON SUPERELEVATED TRACK. THE CLEARANCE ENVELOPES SHOWN DEMONSTRATE THE MINIMUM CLEARANCE REQUIREMENTS.

2. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN. FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES.

3. THE FOLLOWING ARE ROADWAY DESIGN STANDARDS AND GUIDELINES:
   A. CALTRANS HIGHWAY DESIGN MANUAL (2012)
   B. AASHTO A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS (2011)
   C. AASHTO ROADSIDE DESIGN GUIDE (2011)
   D. APPLICABLE LOCAL DESIGN STANDARD AND GUIDELINES (I.E., CITY OF FRESNO)

4. THE FEMA FLOODPLAIN BOUNDARIES ARE CALLED OUT AS "LIMIT OF 100YR FEMA FLOODPLAIN". THE LIMITS OF THE MODELED 100 YEAR WATER SURFACE ELEVATIONS (WSE) ARE APPROXIMATE AND ARE MARKED WITH THE NAME OF THE WATERBODY ASSOCIATED WITH THE MODELED FLOODING, E.G. "LIMIT OF POSO CREEK FLOODPLAIN".

5. THE STRUCTURE DESIGN ASSUMES THAT THE DEPTH FROM TOR TO TOP OF DECK IS 2'-6" THROUGHOUT. HOWEVER, WHERE BALLASTED TRACK FORM IS USED, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-9" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE, AND PROTECTION LAYER IF REQUIRED. FOR SLAB TRACKFORM, THE HEIGHT FROM TOR TO DECK SHALL BE 2'-6" PLUS AN ALLOWANCE FOR WATERPROOF MEMBRANE AND PROTECTION LAYER IF REQUIRED.

6. WHERE THE VERTICAL ALIGNMENT GRADE IS LESS THAN 0.5% THE UPPER SURFACE OF THE VIADUCT STRUCTURE SHALL BE PROFILED TO GIVE A MINIMUM LONGITUDINAL FALL OF 0.5%. TYPICALLY FOR A SPAN OF 120'-00" ON A 0% GRADE SECTION OF VIADUCT THIS COULD BE ACHIEVED BY MODIFYING THE CROSS SLOPE OF THE GIRDER LINEARLY BETWEEN 0.8% AT MID-SPAN TO 2% AT EACH END.

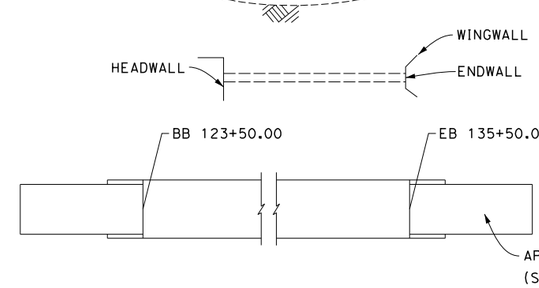
7. WHEN LATERAL SEPARATION BETWEEN THE CONVENTIONAL RAILROAD AND HST SYSTEM IS LESS THAN 102', A SITE SPECIFIC HAZARD ANALYSIS WILL BE CONDUCTED TO DETERMINE WHAT SPECIFIC COLLISION PROTECTION MEASURES MAY NEED TO BE IMPLEMENTED.

8. RIP-RAP PROTECTION IS REQUIRED FOR EMBANKMENTS WITHIN FEMA SPECIAL FLOOD HAZARD ZONES, IN ACCORDANCE WITH DESIGN CRITERIA.

9. HST ALIGNMENT CONTROL LINE IS DESIGNED AS THE CENTERLINE BETWEEN THE TWO MAINLINE TRACKS.

10. TRACK FORM USED IN TYPICAL SECTIONS IS INDICATIVE.

	DIRECTION OF TRAFFIC
1	LINE DATA
	POINT OF MINIMUM VERTICAL CLEARANCE ROAD CLOSURE (ROADWAYS)
1 / 3	CURVE DATA (ALIGNMENTS) CURVE DATA (STRUCTURES)
	EXISTING HIGH VOLTAGE TOWER FOOTPRINT
	OG / ORIGINAL GROUND



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY K. SEYMOUR
DRAWN BY P. TONKIN
CHECKED BY D. HUNT
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
GENERAL
ABBREVIATIONS AND LEGENDS
SHEET 2 OF 2

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0011
SCALE NO SCALE
SHEET NO. 11 OF 11

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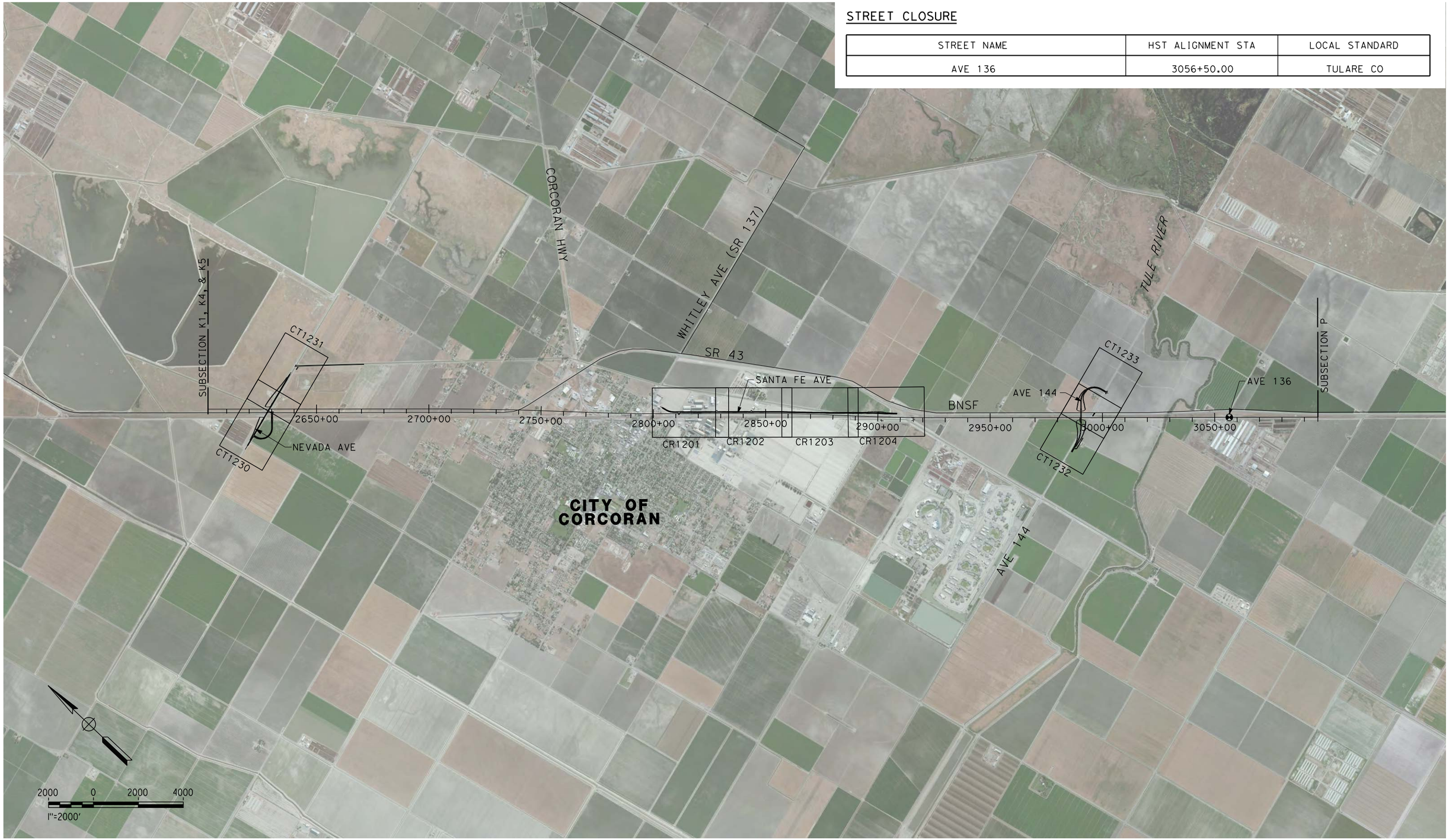
BAR59603

STREET CLOSURE

STREET NAME	HST ALIGNMENT STA	LOCAL STANDARD
AVE 136	3056+50.00	TULARE CO



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

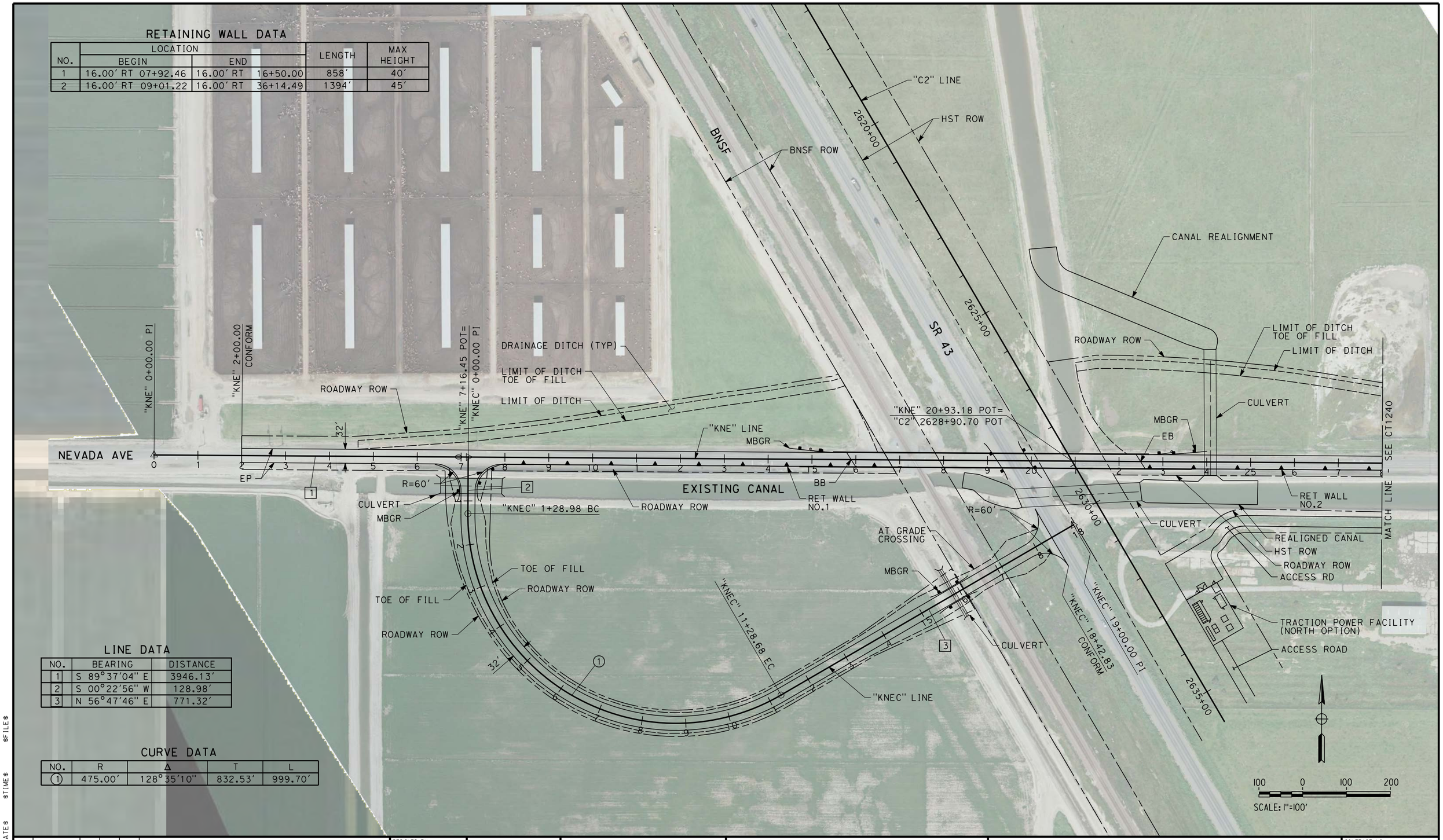
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0070
SCALE AS SHOWN
SHEET NO. 1 OF 18

$USER$ $DATE$ $TIME$ $FILE$

RETAINING WALL DATA

NO.	LOCATION BEGIN	LOCATION END	LENGTH	MAX HEIGHT
1	16.00' RT 07+92.46	16.00' RT 16+50.00	858'	40'
2	16.00' RT 09+01.22	16.00' RT 36+14.49	1394'	45'



LINE DATA

NO.	BEARING	DISTANCE
1	S 89°37'04" E	3946.13'
2	S 00°22'56" W	128.98'
3	N 56°47'46" E	771.32'

CURVE DATA

NO.	R	Δ	T	L
1	475.00'	128°35'10"	832.53'	999.70'

$FILE$
$TIME$
$DATE$
$USER$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION LAYOUT
NEVADA AVE

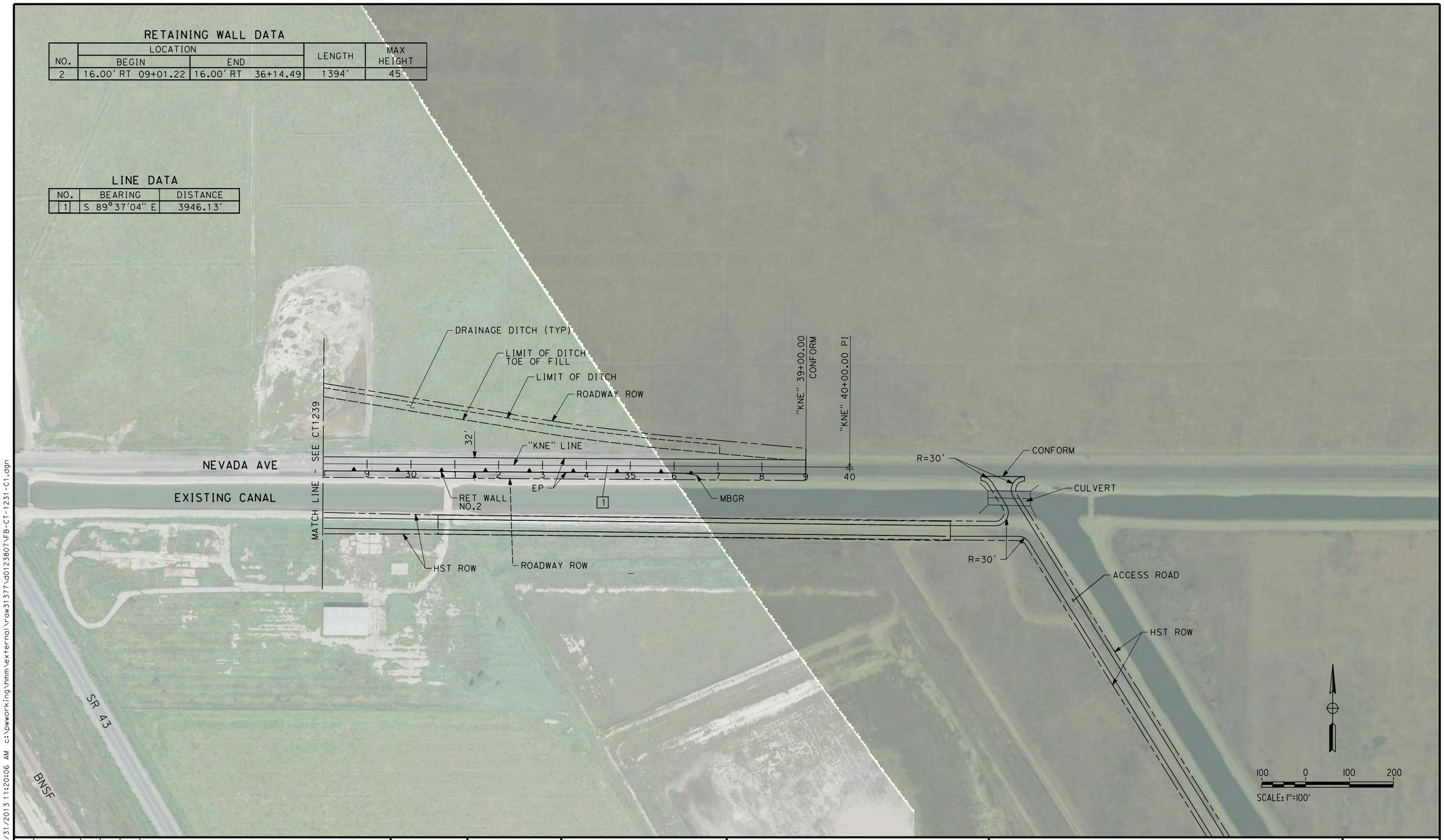
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1230
SCALE AS SHOWN
SHEET NO. 2 OF 18

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
2	16.00' RT 09+01.22	16.00' RT 36+14.49	1394'	45'

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°37'04" E	3946.13'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION LAYOUT
NEVADA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1231
SCALE AS SHOWN
SHEET NO. 3 OF 18

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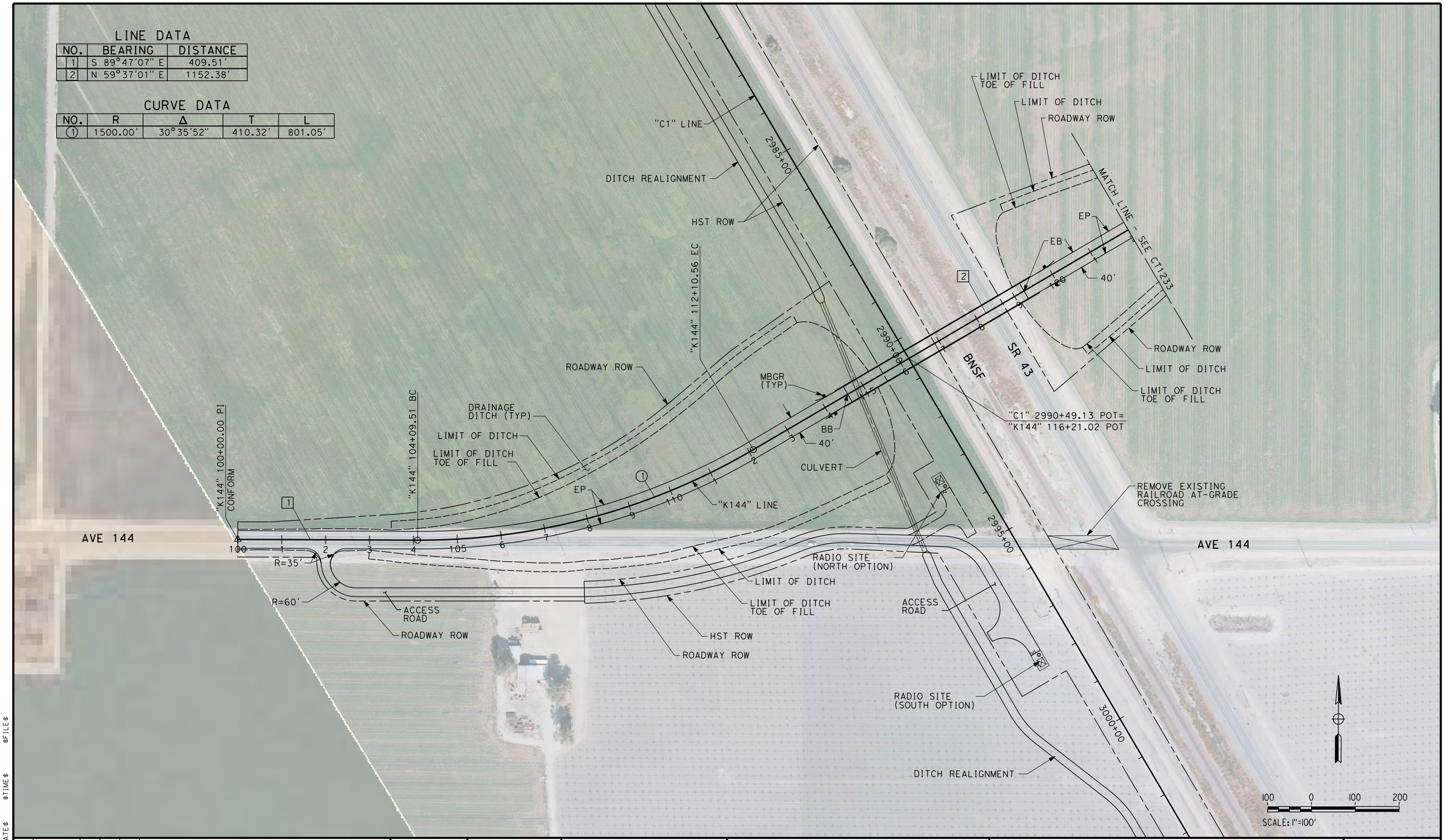
LINE DATA

NO.	BEARING	DISTANCE
1	S 89°47′07″ E	409.51′
2	N 59°37′01″ E	1152.38′

CURVE DATA

NO.	R	Δ	T	L
1	1500.00′	30°35′52″	410.32′	801.05′



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

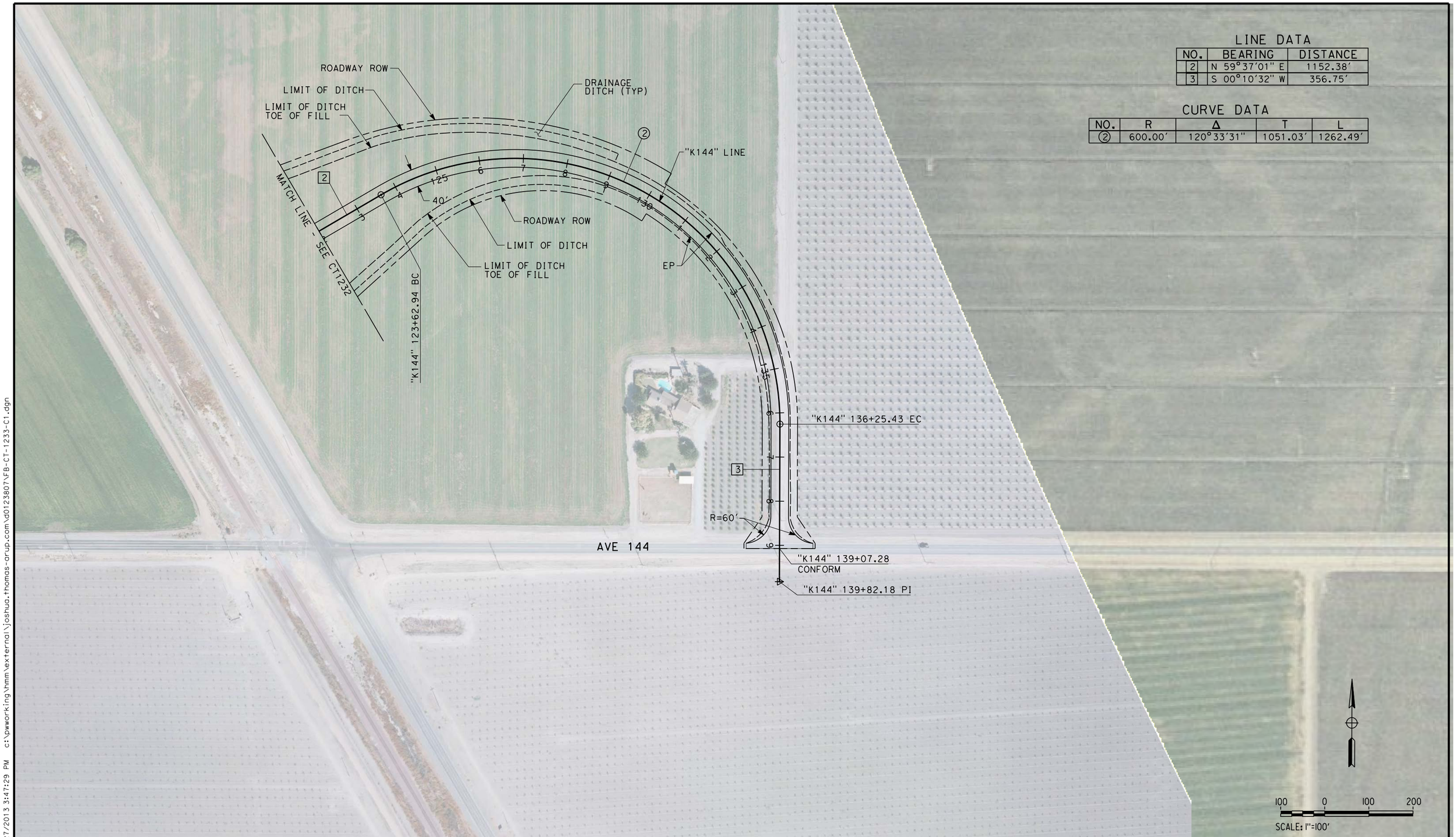
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION LAYOUT
AVE 144

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1232
SCALE AS SHOWN
SHEET NO. 4 OF 18

$FILE$ $TIME$ $DATE$ $USER$



LINE DATA

NO.	BEARING	DISTANCE
2	N 59°37'01" E	1152.38'
3	S 00°10'32" W	356.75'

CURVE DATA

NO.	R	Δ	T	L
2	600.00'	120°33'31"	1051.03'	1262.49'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION LAYOUT
AVE 144

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1233
SCALE AS SHOWN
SHEET NO. 5 OF 18

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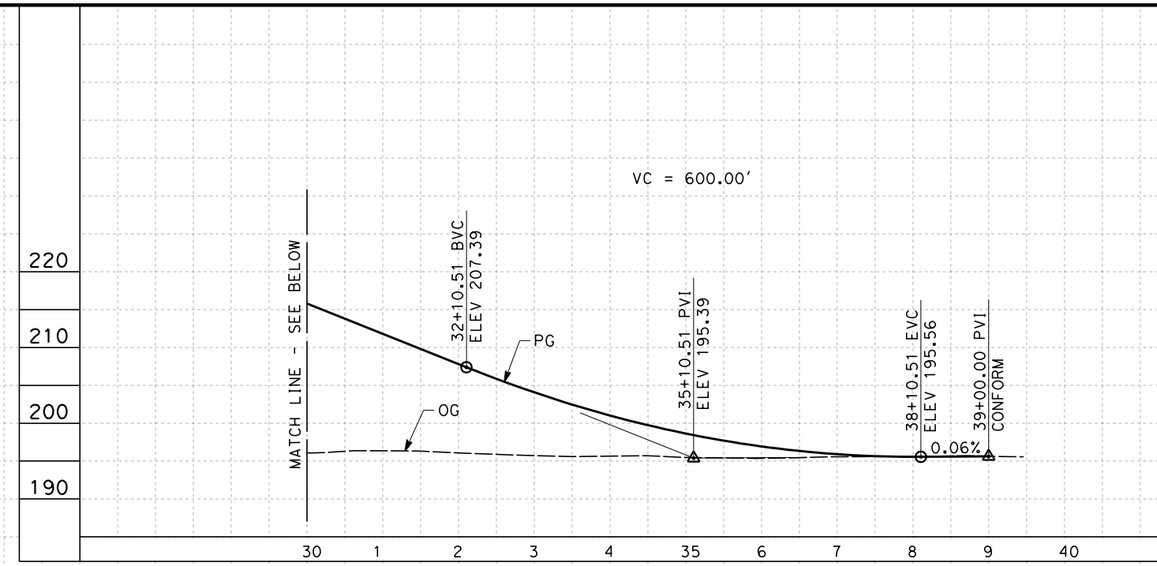
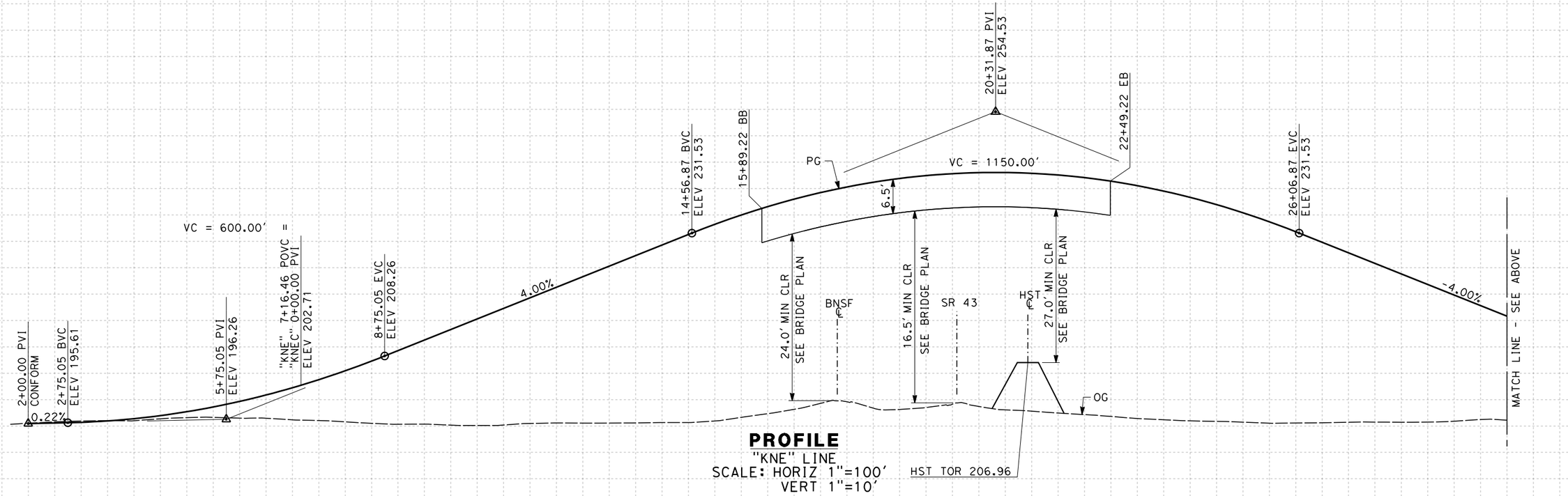
NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE ABOVE STATE HIGHWAY IS 16.5' FROM ROADWAY SURFACE





PROFILE
"KNE" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	3	4	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	TOTAL
CY Exc																													
CY Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION PROFILE
NEVADA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2230
SCALE AS SHOWN
SHEET NO. 6 OF 18

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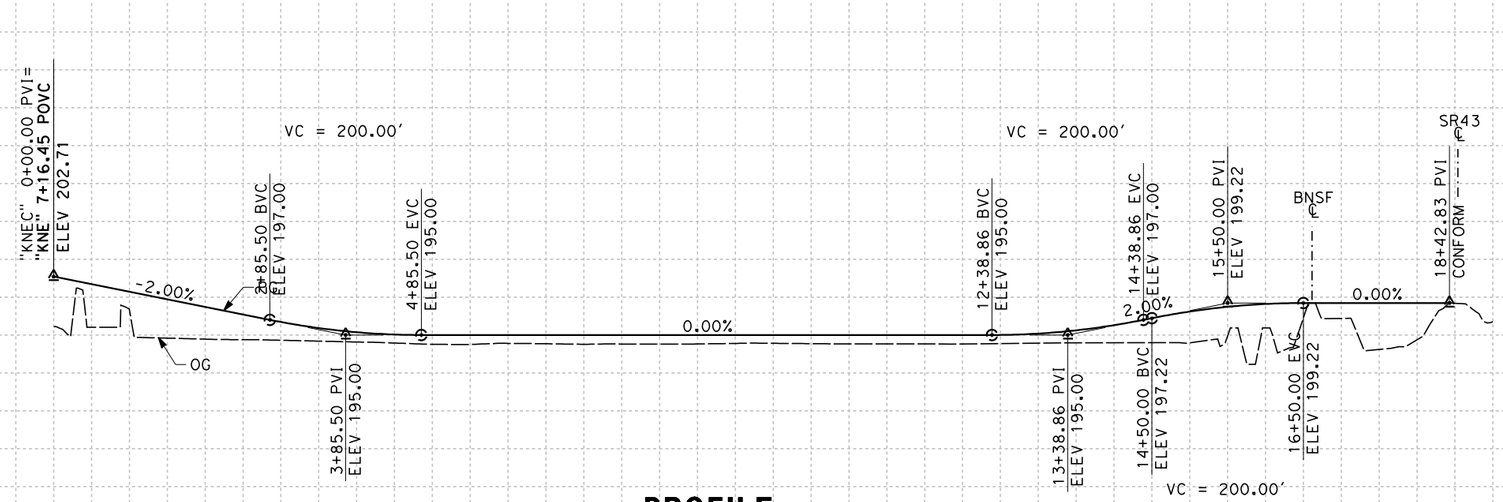
NOTES:
1. REFER TO DRAWING CT1230 FOR LAYOUT



PROFILE
"KNEC" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	TOTAL
CY Exc																						
CY Emb																						

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S.BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION PROFILE
NEVADA AVE CONNECTOR

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2231
SCALE AS SHOWN
SHEET NO. 7 OF 18

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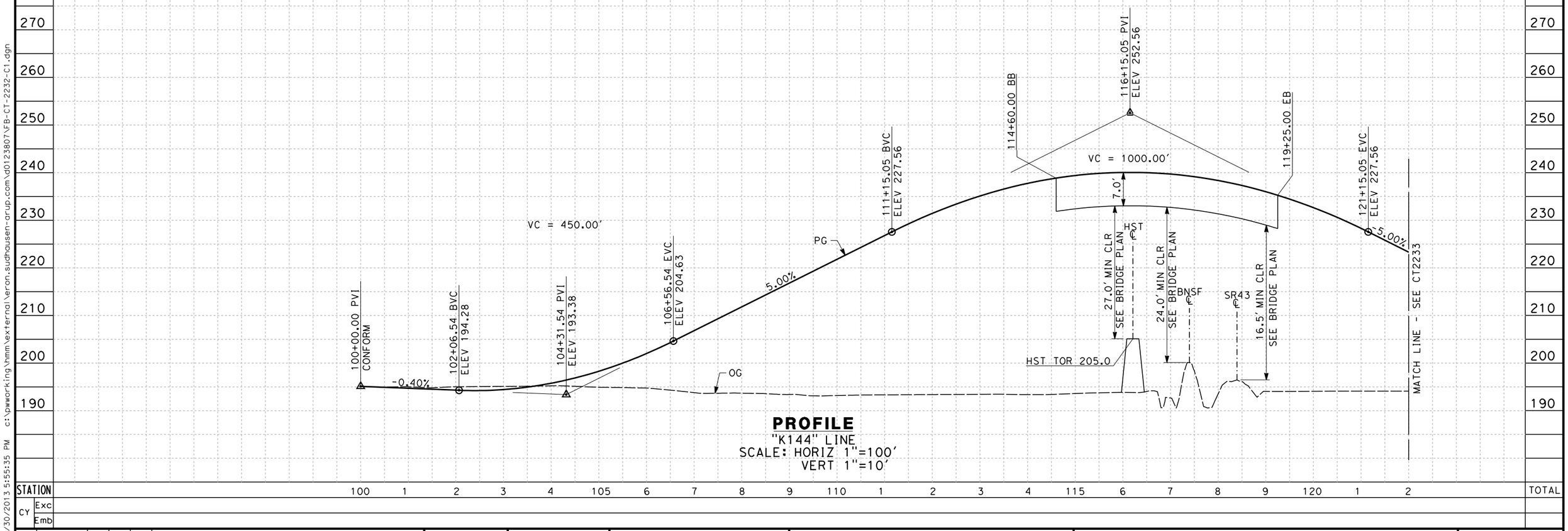
NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE ABOVE STATE HIGHWAY IS 16.5' FROM ROADWAY SURFACE



PROFILE
"K144" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION PROFILE
AVE 144

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2232
SCALE AS SHOWN
SHEET NO. 8 OF 18

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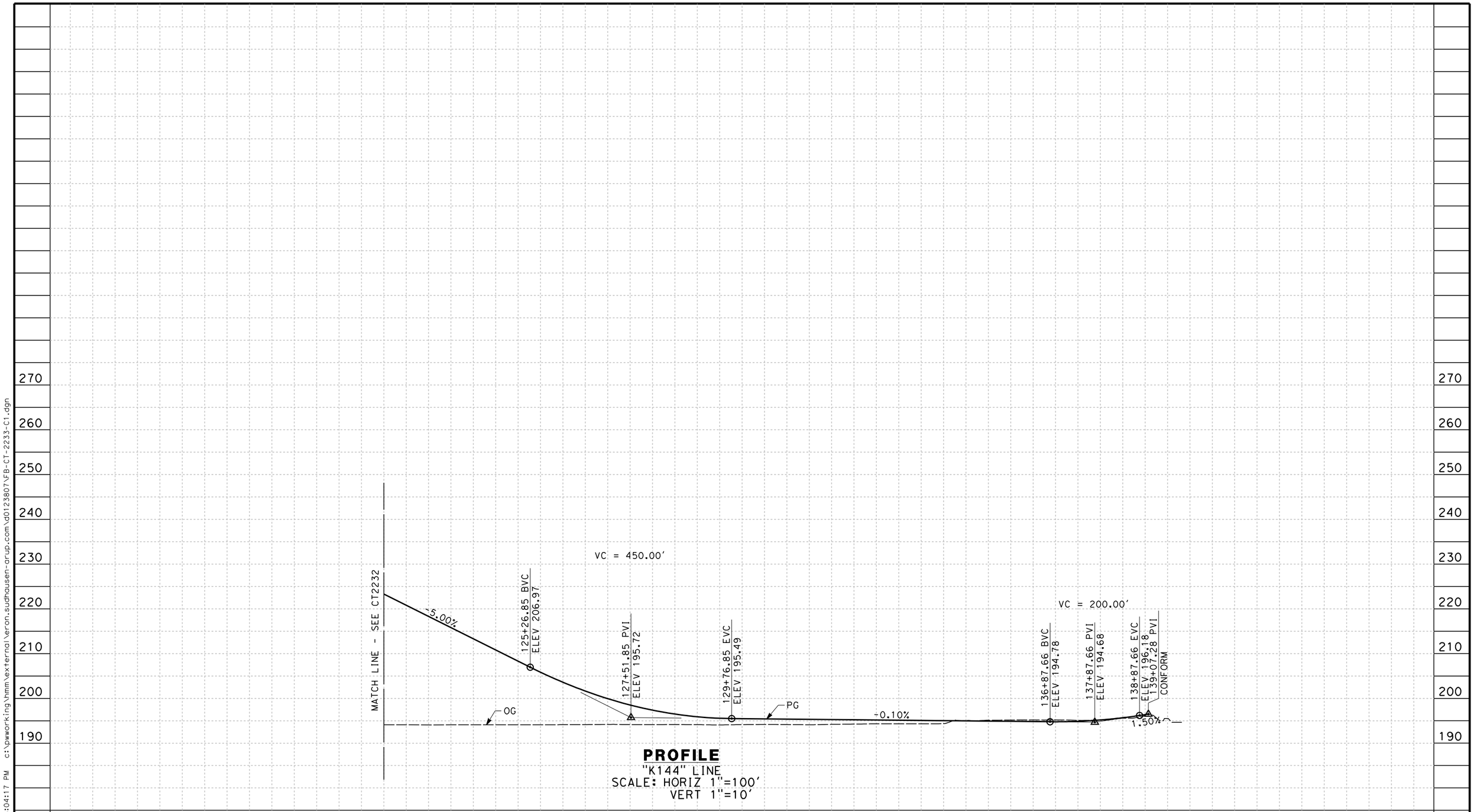

PROFILE
"K144" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S.BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
GRADE SEPARATION PROFILE
AVE 144

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2233
SCALE AS SHOWN
SHEET NO. 9 OF 18

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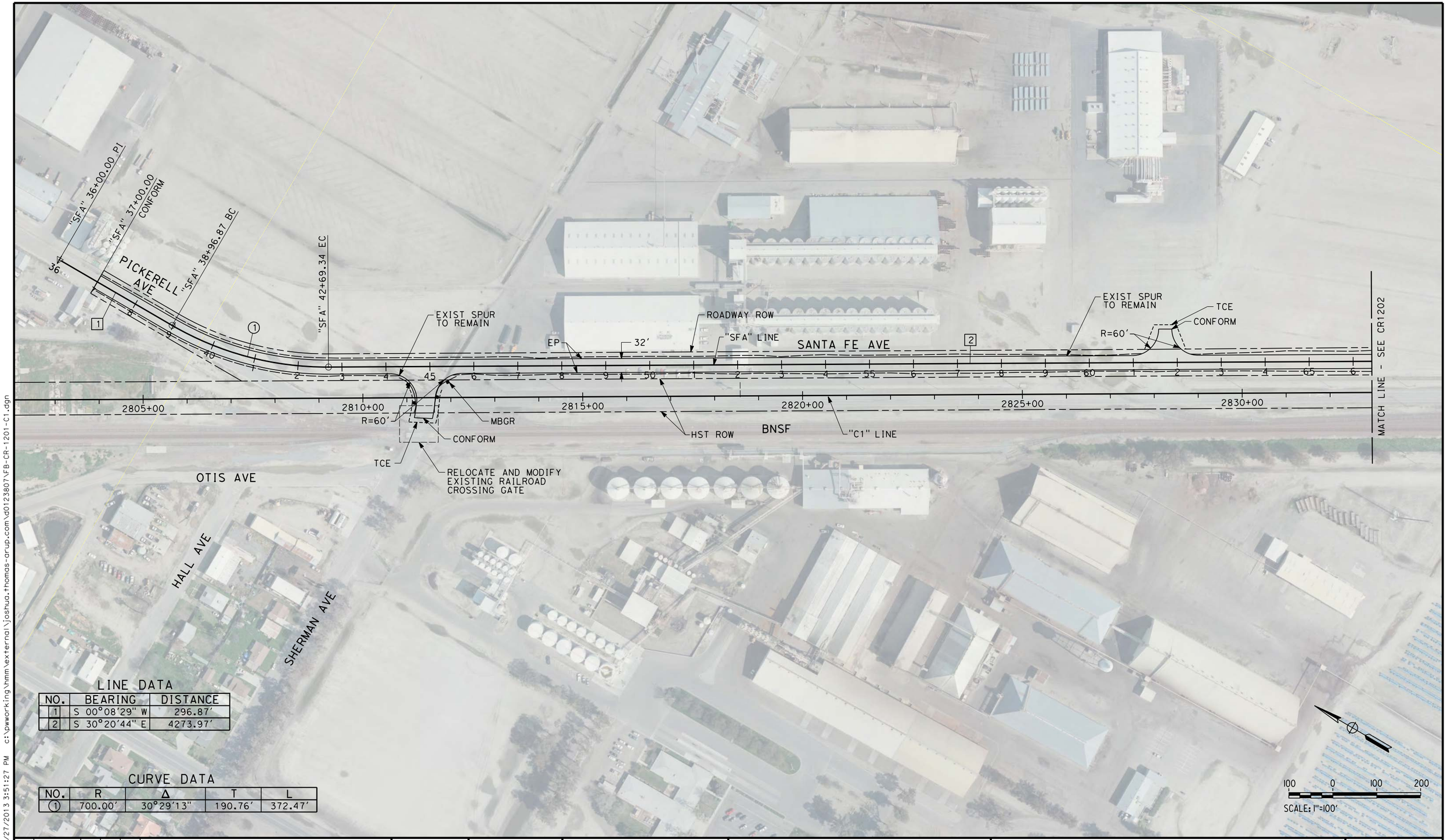

LINE DATA

NO.	BEARING	DISTANCE
1	S 00°08'29" W	296.87'
2	S 30°20'44" E	4273.97'

CURVE DATA

NO.	R	Δ	T	L
1	700.00'	30°29'13"	190.76'	372.47'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY LAYOUT
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1201
SCALE AS SHOWN
SHEET NO. 10 OF 18

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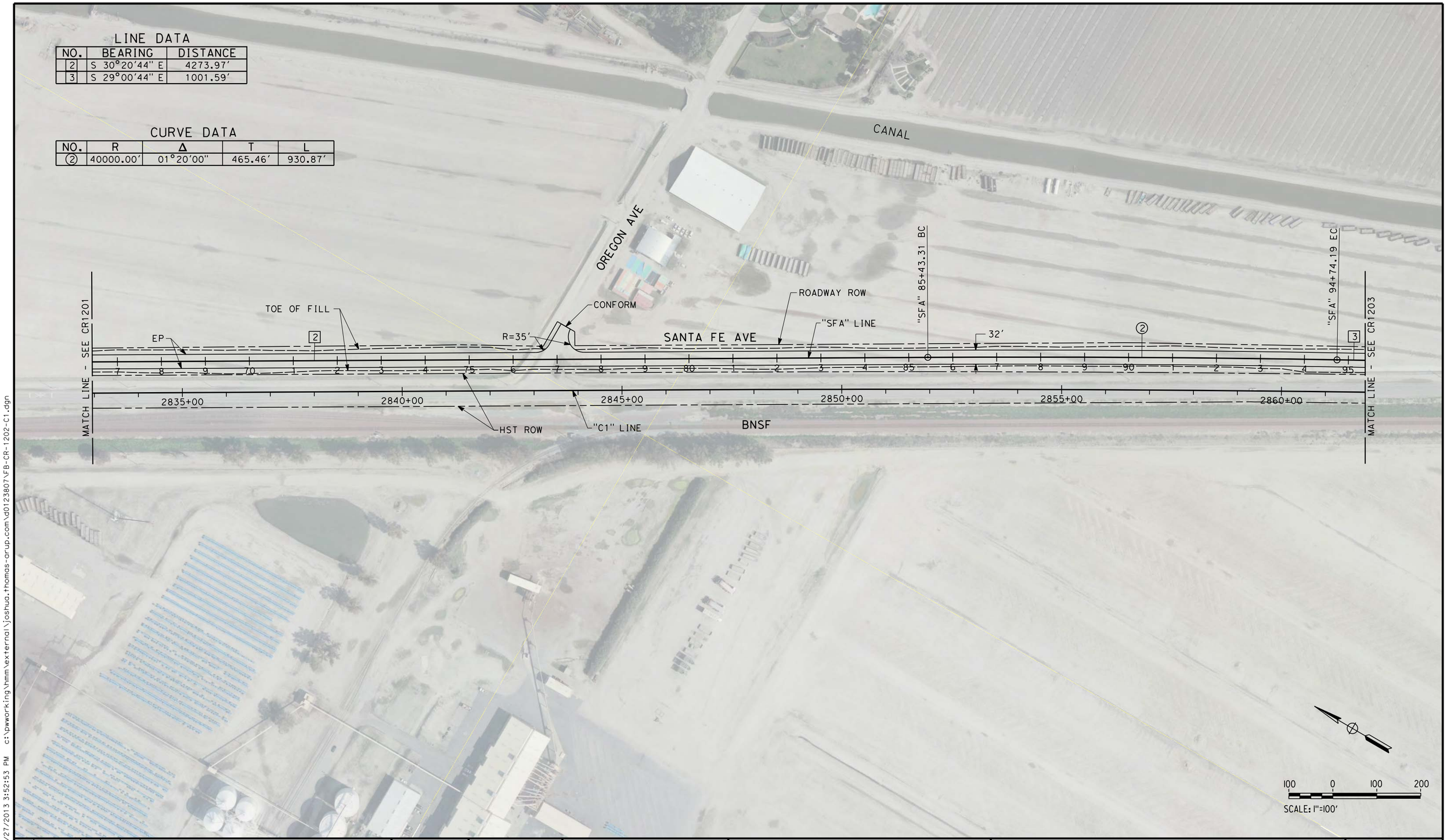
LINE DATA

NO.	BEARING	DISTANCE
2	S 30°20'44" E	4273.97'
3	S 29°00'44" E	1001.59'

CURVE DATA

NO.	R	Δ	T	L
2	40000.00'	01°20'00"	465.46'	930.87'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY LAYOUT
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1202
SCALE AS SHOWN
SHEET NO. 11 OF 18

joshua.thomas 12/27/2013 3:52:53 PM c:\pwworking\hmm\external\joshua.thomas-arup.com\d0123807\FB-CR-1202-C1.dgn

LINE DATA

NO.	BEARING	DISTANCE
3	S 29°00'44" E	1001.59'
4	S 30°21'39" E	1906.65'

CURVE DATA

NO.	R	Δ	T	L
3	40000.00'	01°20'55"	470.81'	941.57'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY LAYOUT
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1203
SCALE AS SHOWN
SHEET NO. 12 OF 18

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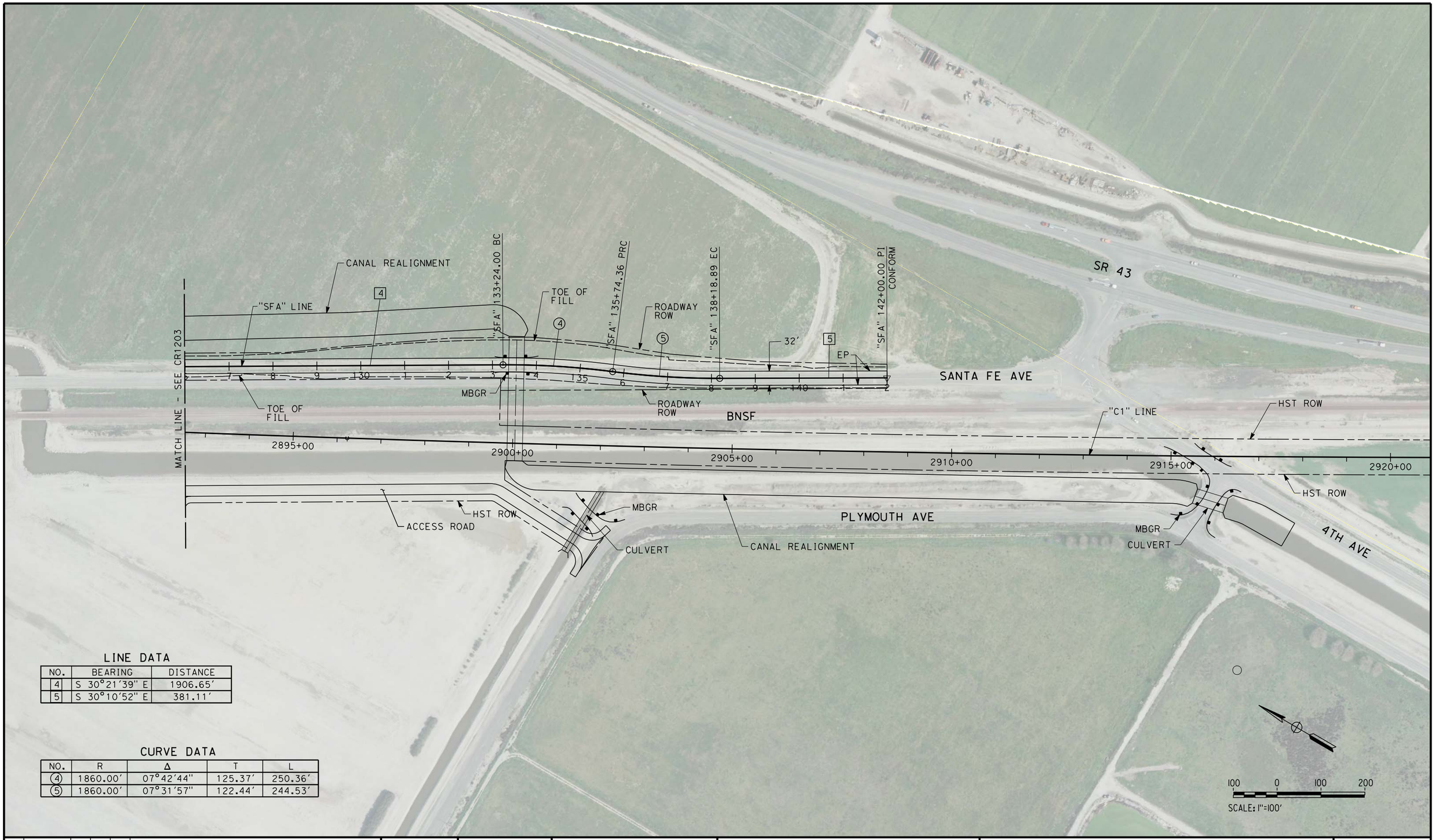


LINE DATA

NO.	BEARING	DISTANCE
4	S 30°21'39" E	1906.65'
5	S 30°10'52" E	381.11'

CURVE DATA

NO.	R	Δ	T	L
4	1860.00'	07°42'44"	125.37'	250.36'
5	1860.00'	07°31'57"	122.44'	244.53'

$FILE$
$TIME$
$DATE$
$USER$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

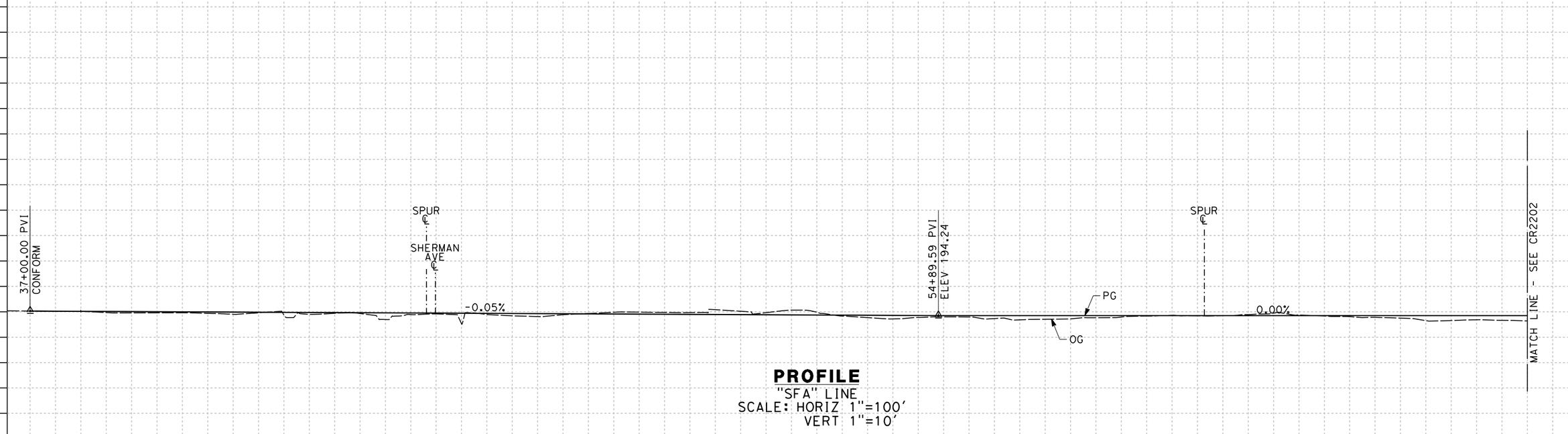
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY LAYOUT
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1204
SCALE AS SHOWN
SHEET NO. 13 OF 18



PROFILE
"SFA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	7	8	9	40	1	2	3	4	45	6	7	8	9	50	1	2	3	4	55	6	7	8	9	60	1	2	3	4	65	6	TOTAL
CY Exc																															
CY Emb																															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY PROFILE
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR2201
SCALE AS SHOWN
SHEET NO. 14 OF 18

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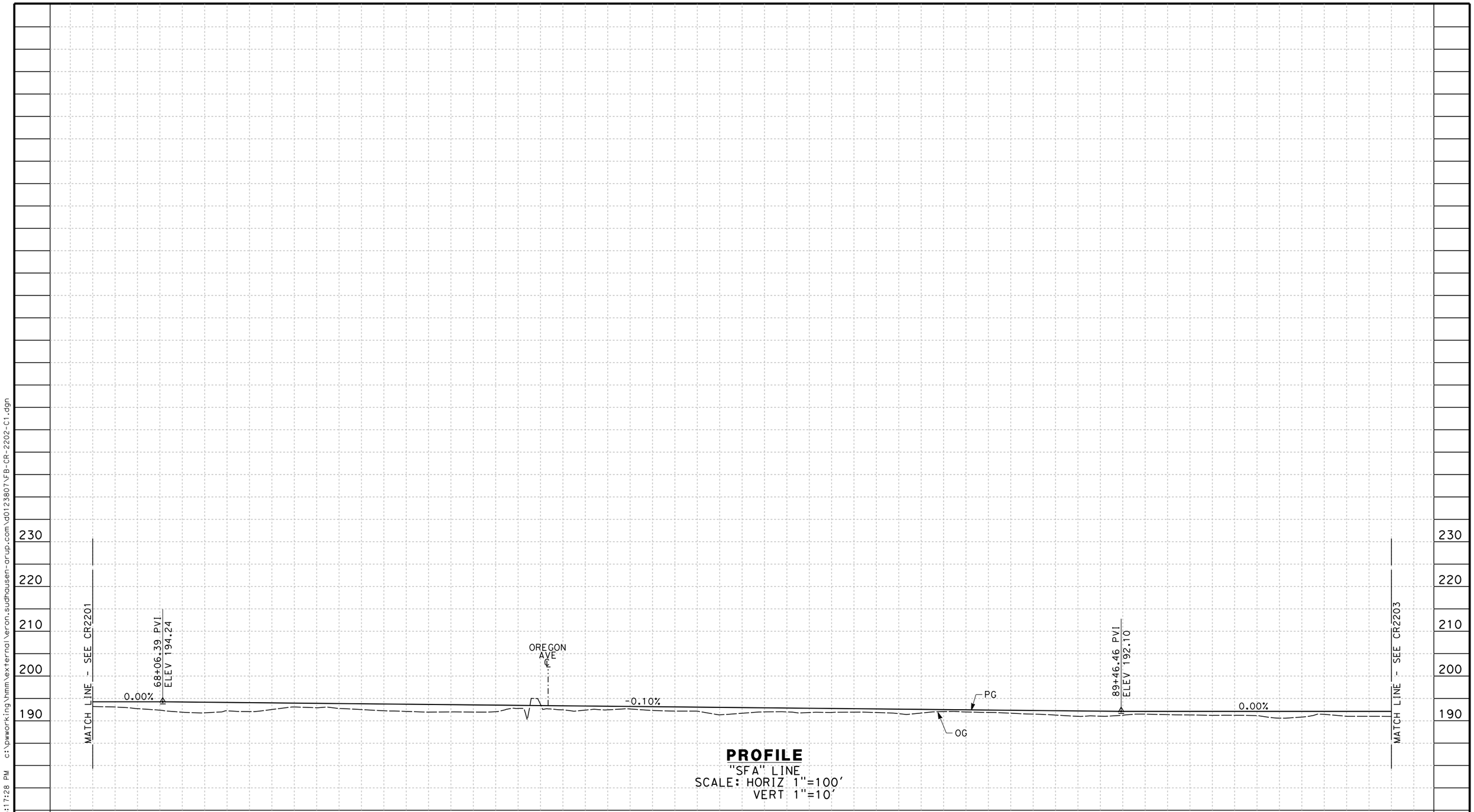

PROFILE
"SFA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY PROFILE
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR2202
SCALE AS SHOWN
SHEET NO. 15 OF 18

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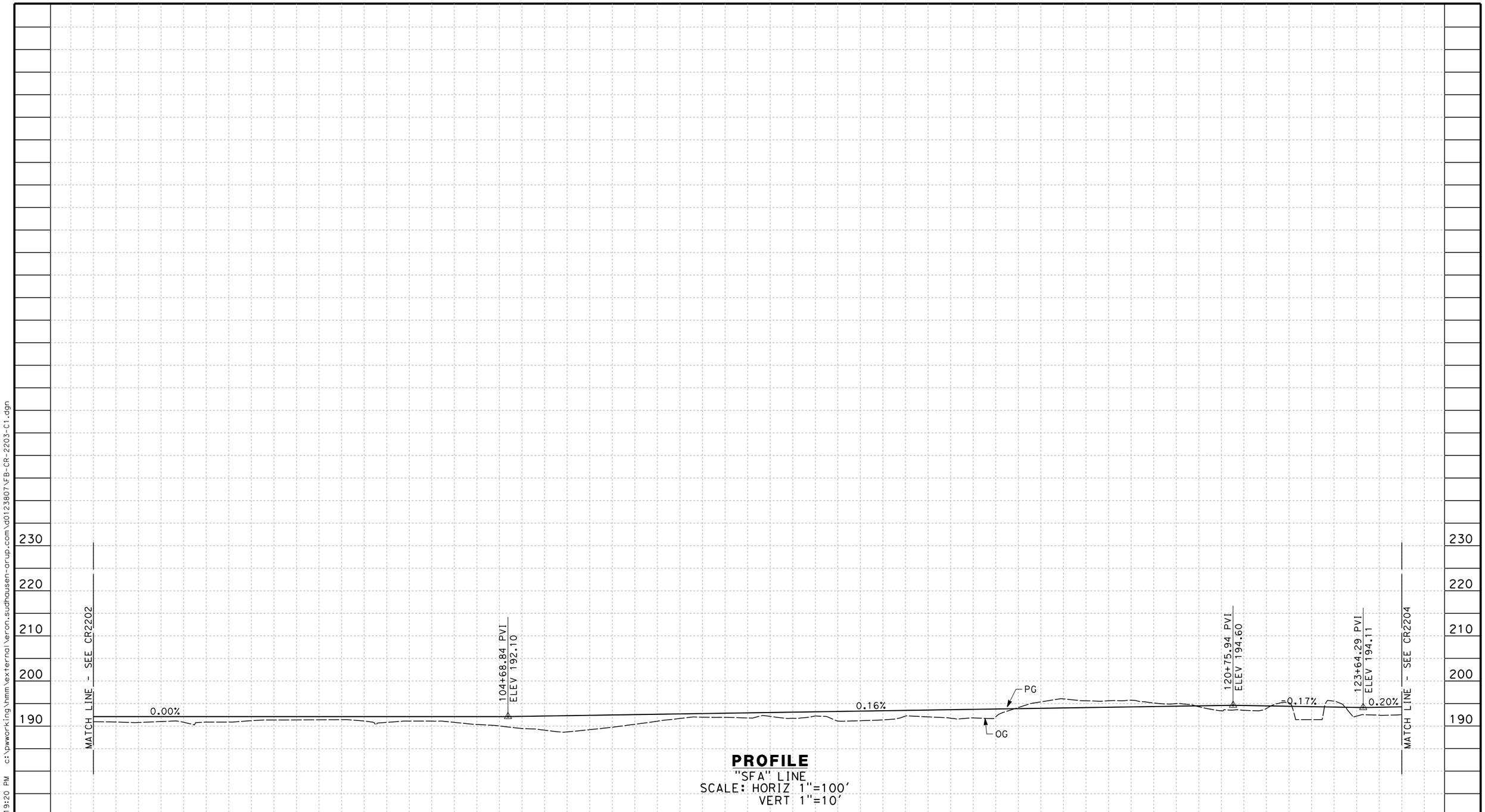

PROFILE
"SFA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY PROFILE
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR2203
SCALE AS SHOWN
SHEET NO. 16 OF 18

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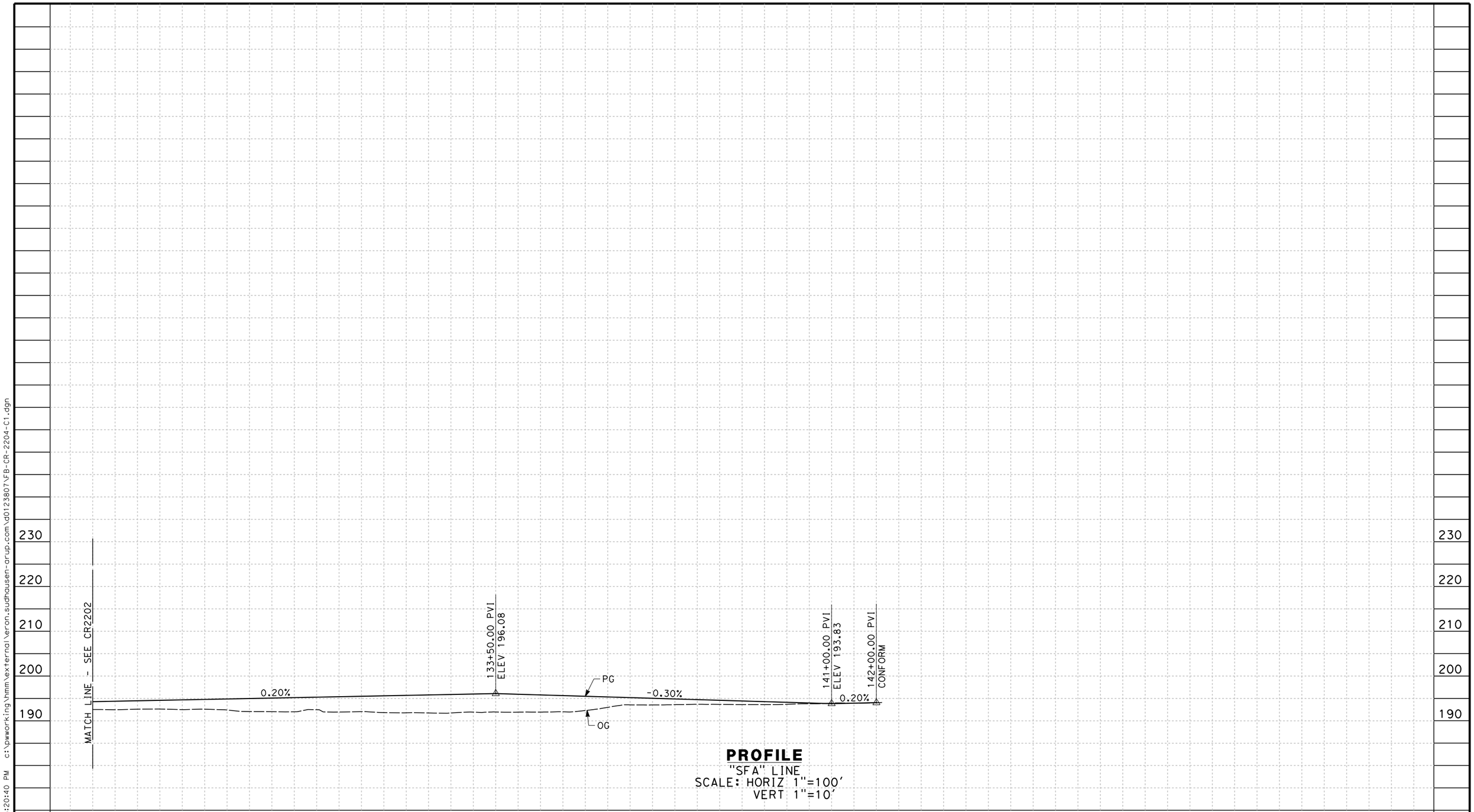

PROFILE
"SFA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY PROFILE
SANTA FE AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR2204
SCALE AS SHOWN
SHEET NO. 17 OF 18

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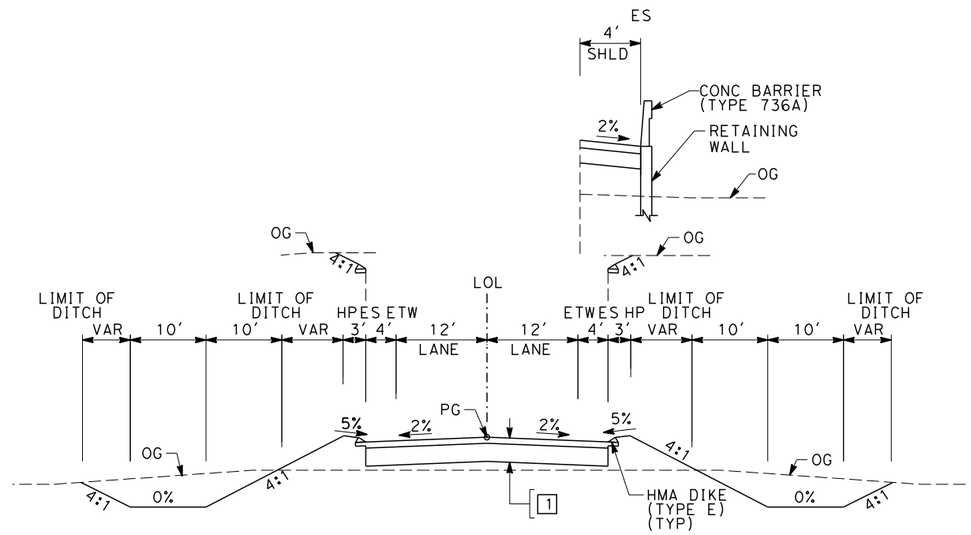
NOTES:

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSION AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

STRUCTURAL SECTIONS
TYPICAL ROADWAY

[1] 0.50' HMA (TYPE A)
1.50' CL2 AB

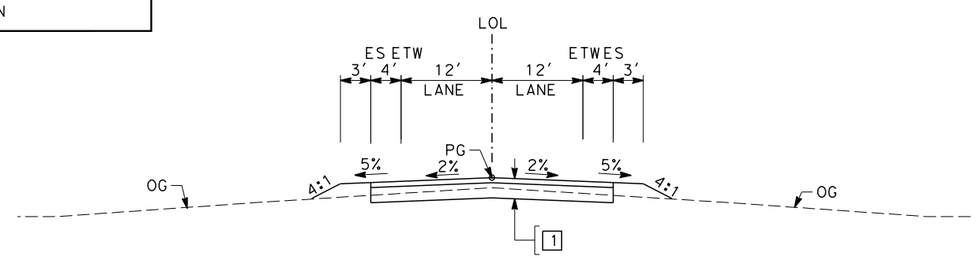


SECTION A

"KNE" 4+50.00 TO 15+89.22
"KNE" 22+49.22 TO 37+00.00
"K144" 100+00.00 TO 114+60.00
"K144" 119+25.00 TO 129+00.00

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA/JURISDICTION
NEVADA AVE	KNE	50	KINGS COUNTY/KINGS COUNTY
NEVADA AVE CONNECTOR	KNEC	25	KINGS COUNTY/KINGS COUNTY
AVE 144	K144	45	TULARE COUNTY/TULARE COUNTY
PICKERELL AVE / SANTA FE AVE	SFA	35/55	HDM/CITY OF CORCORAN



SECTION B

"KNE" 2+00.00 TO 4+50.00
"KNE" 37+00.00 TO 39+00.00
"KNEC" 0+00.00 TO 18+42.83
"K144" 129+00.00 TO 139+07.28
"SFA" 37+00.00 TO 142+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

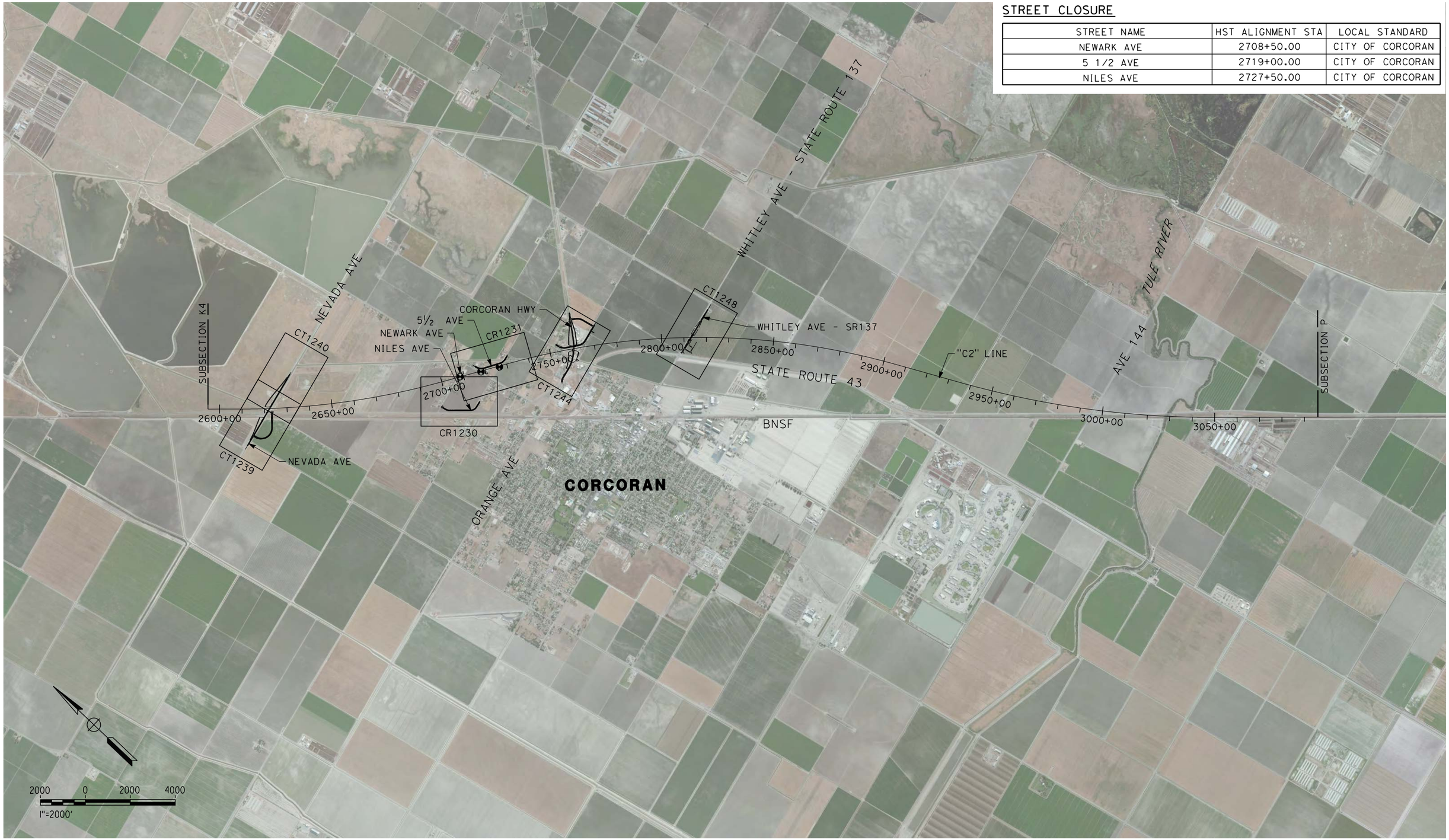
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C1
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3040
SCALE NO SCALE
SHEET NO. 18 OF 18

$USER$ $DATE$ $TIME$ $FILE$

STREET CLOSURE

STREET NAME	HST ALIGNMENT STA	LOCAL STANDARD
NEWARK AVE	2708+50.00	CITY OF CORCORAN
5 1/2 AVE	2719+00.00	CITY OF CORCORAN
NILES AVE	2727+50.00	CITY OF CORCORAN



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

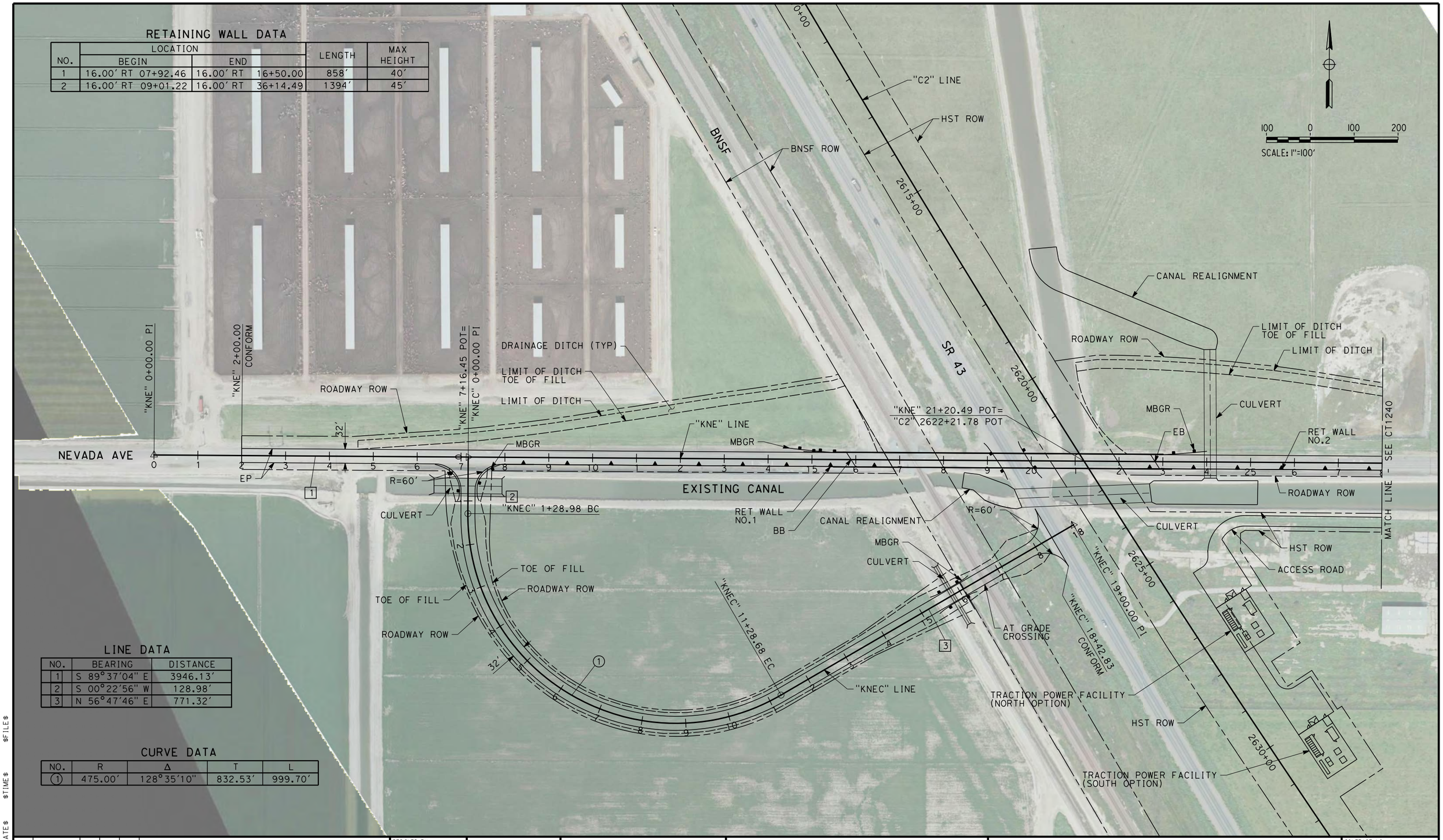
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY / GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0075
SCALE AS SHOWN
SHEET NO. 1 OF 18

$USER$ $DATE$ $TIME$ $FILE$

RETAINING WALL DATA

NO.	LOCATION BEGIN	LOCATION END	LENGTH	MAX HEIGHT
1	16.00' RT 07+92.46	16.00' RT 16+50.00	858'	40'
2	16.00' RT 09+01.22	16.00' RT 36+14.49	1394'	45'



LINE DATA

NO.	BEARING	DISTANCE
1	S 89°37'04" E	3946.13'
2	S 00°22'56" W	128.98'
3	N 56°47'46" E	771.32'

CURVE DATA

NO.	R	Δ	T	L
1	475.00'	128°35'10"	832.53'	999.70'

$FILE$
$TIME$
$DATE$
$USER$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
NEVADA AVE

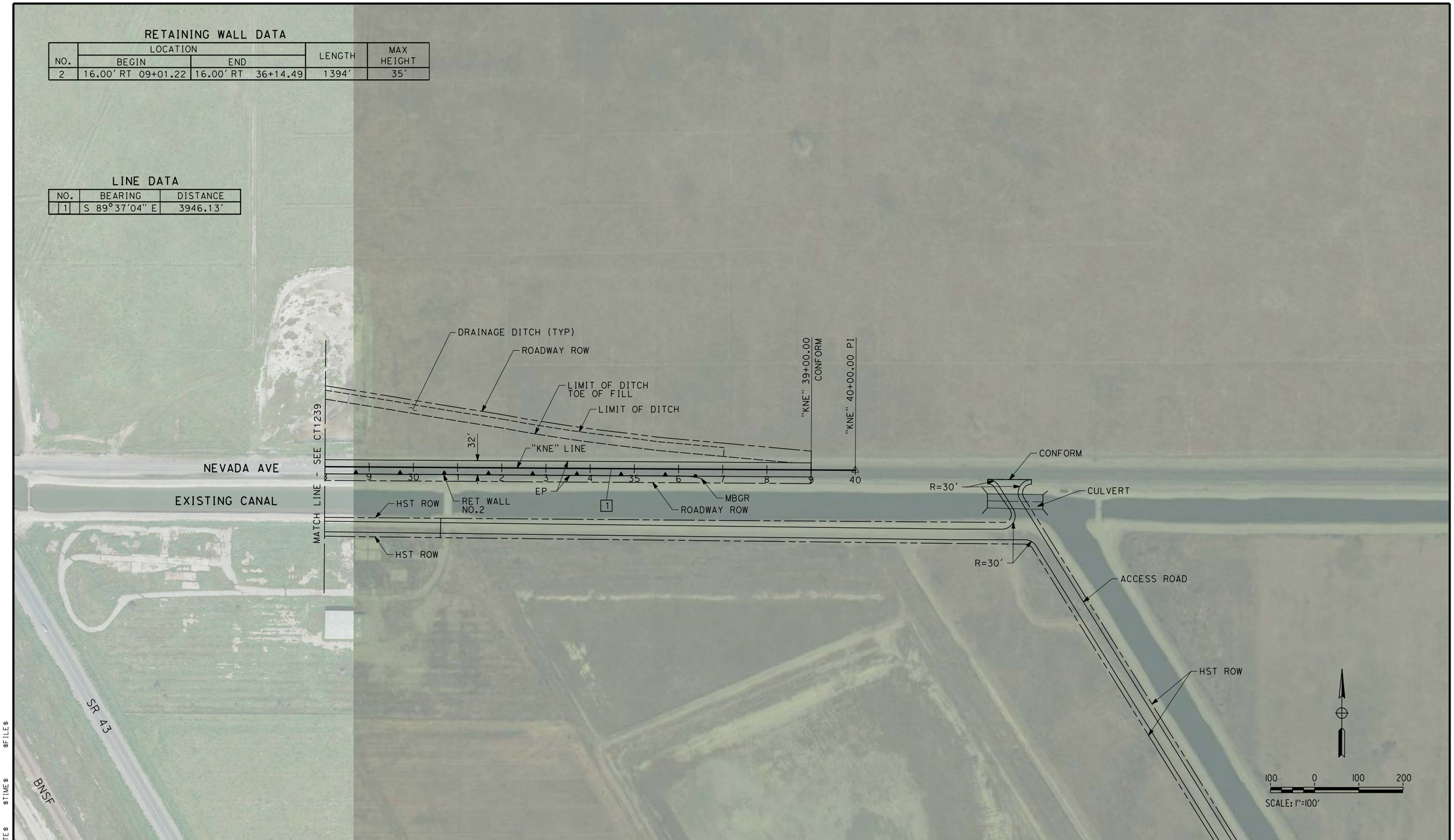
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1239
SCALE AS SHOWN
SHEET NO. 2 OF 18

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
2	16.00' RT 09+01.22	16.00' RT 36+14.49	1394'	35'

LINE DATA

NO.	BEARING	DISTANCE
1	S 89°37'04" E	3946.13'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
NEVADA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1240
SCALE AS SHOWN
SHEET NO. 3 OF 18

$USER$ $DATE$ $TIME$ $FILE$

LINE DATA

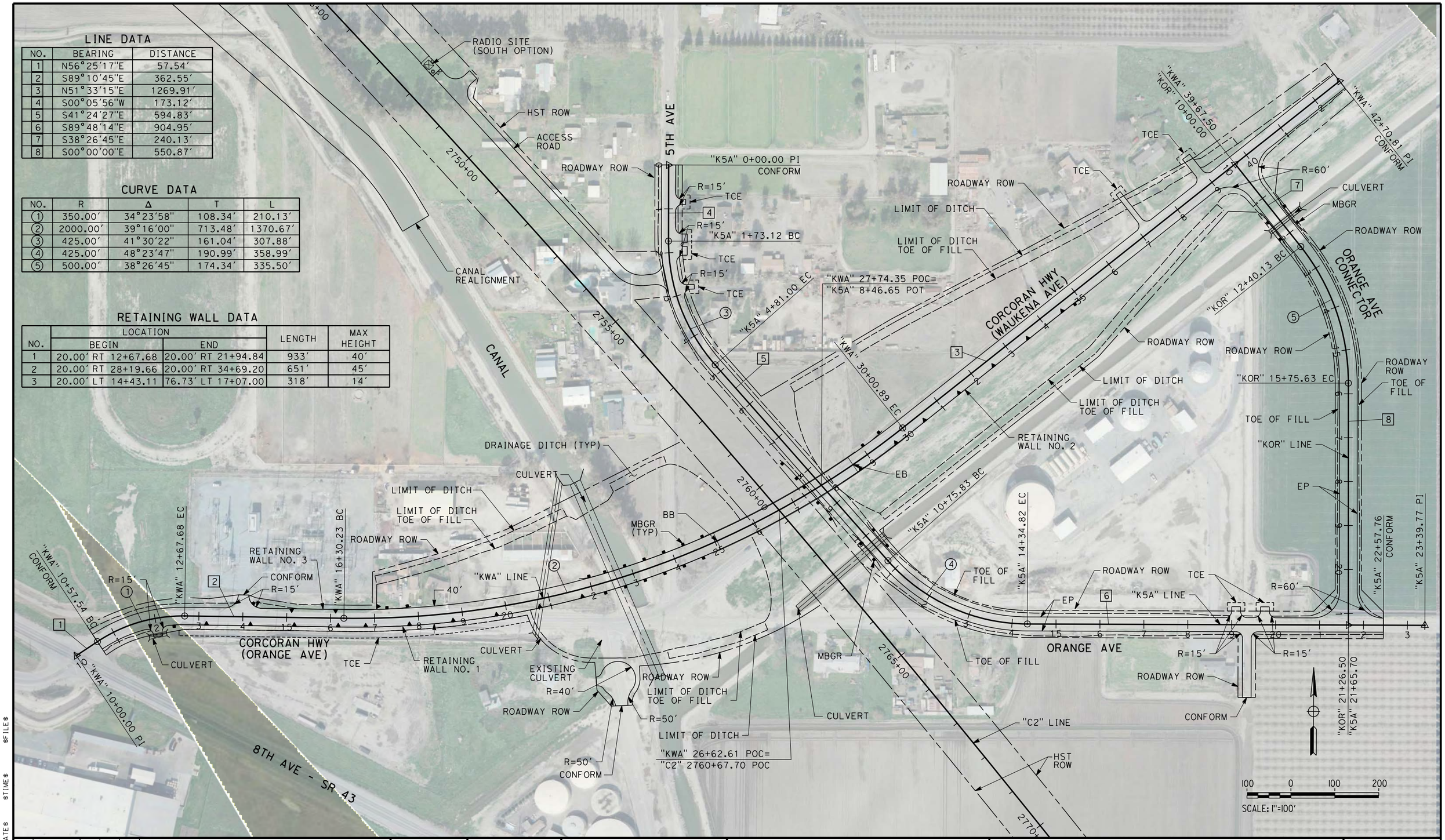
NO.	BEARING	DISTANCE
1	N56°25'17"E	57.54'
2	S89°10'45"E	362.55'
3	N51°33'15"E	1269.91'
4	S00°05'56"W	173.12'
5	S41°24'27"E	594.83'
6	S89°48'14"E	904.95'
7	S38°26'45"E	240.13'
8	S00°00'00"E	550.87'

CURVE DATA

NO.	R	Δ	T	L
1	350.00'	34°23'58"	108.34'	210.13'
2	2000.00'	39°16'00"	713.48'	1370.67'
3	425.00'	41°30'22"	161.04'	307.88'
4	425.00'	48°23'47"	190.99'	358.99'
5	500.00'	38°26'45"	174.34'	335.50'

RETAINING WALL DATA

NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	20.00' RT 12+67.68	20.00' RT 21+94.84	933'	40'
2	20.00' RT 28+19.66	20.00' RT 34+69.20	651'	45'
3	20.00' LT 14+43.11	76.73' LT 17+07.00	318'	14'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

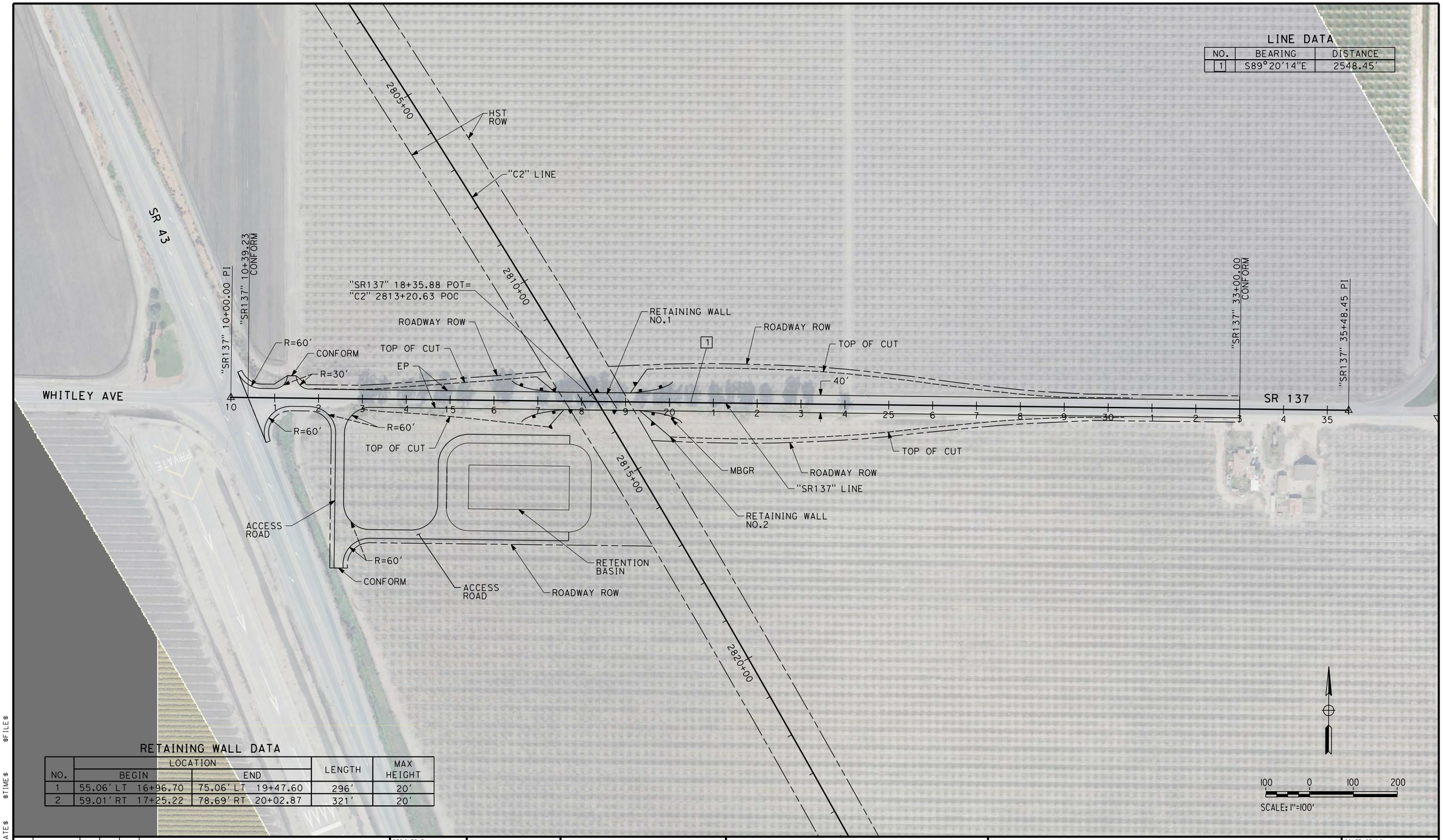
CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD

CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
CORCORAN HWY

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1244
SCALE AS SHOWN
SHEET NO. 4 OF 18

$FILE$ $TIME$ $DATE$ $USER$



LINE DATA

NO.	BEARING	DISTANCE
1	S89°20'14"E	2548.45'

RETAINING WALL DATA

NO.	LOCATION BEGIN	LOCATION END	LENGTH	MAX HEIGHT
1	55.06' LT 16+96.70	75.06' LT 19+47.60	296'	20'
2	59.01' RT 17+25.22	78.69' RT 20+02.87	321'	20'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

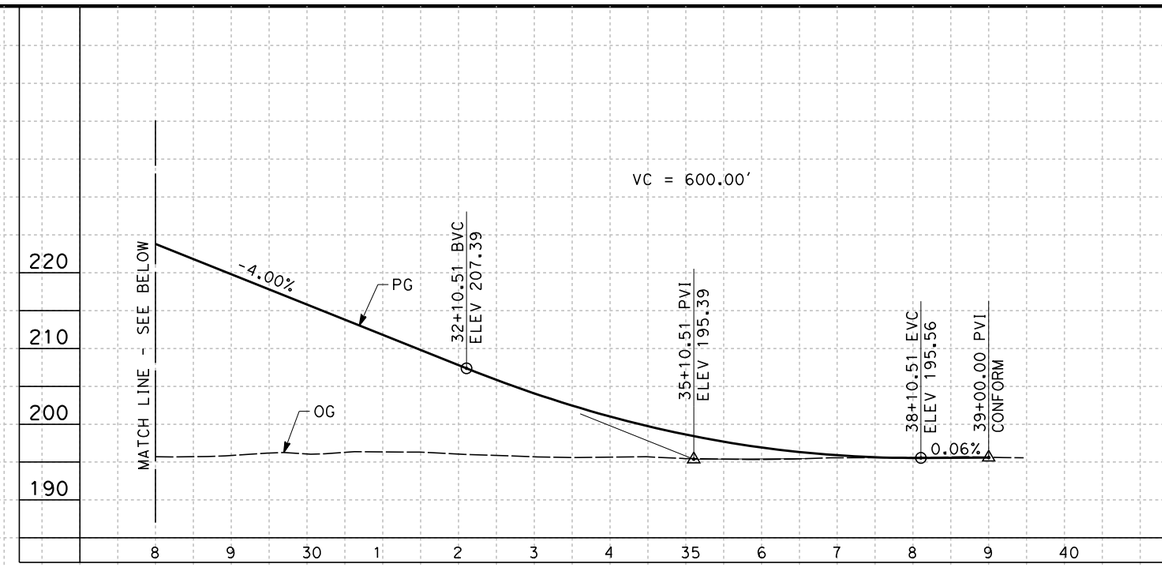
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION LAYOUT
WHITLEY AVE/STATE ROUTE 137

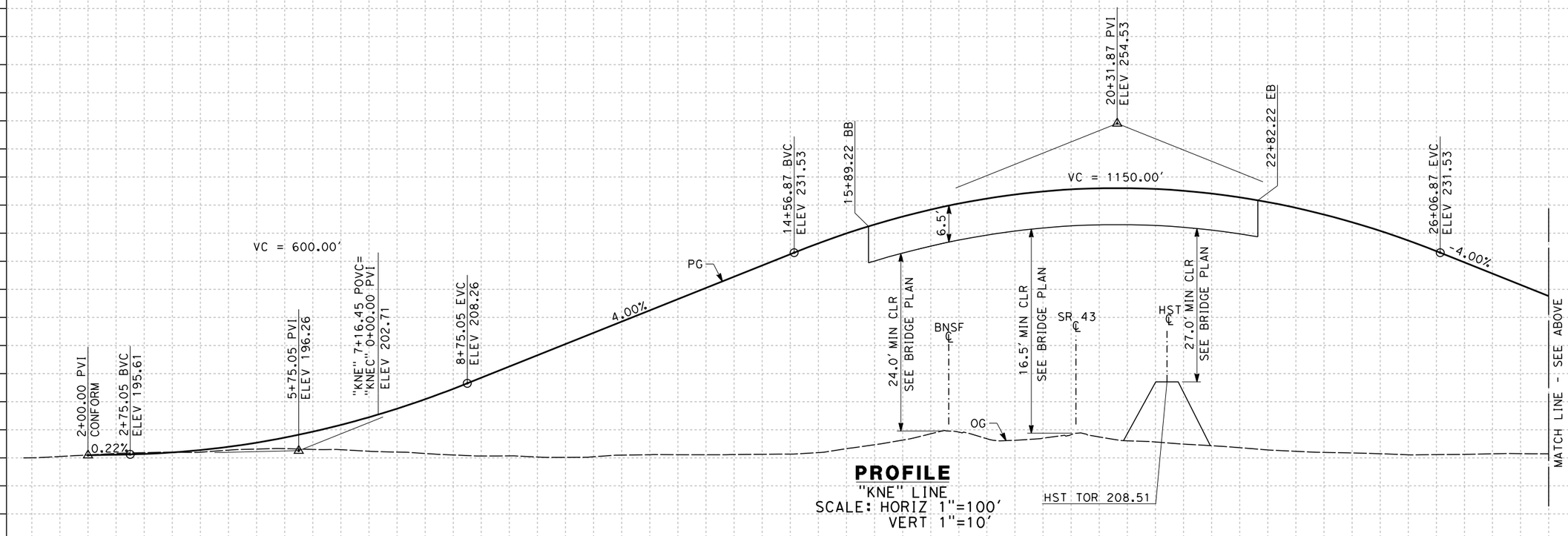
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1248
SCALE AS SHOWN
SHEET NO. 5 OF 18

$FILE$ $TIME$ $DATE$ $USER$

NOTES:

1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER BNSF IS 24.0' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE OVER STATE HIGHWAY IS 16.5' FROM ROAD SURFACE





PROFILE
"KNE" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	2	3	4	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	TOTAL
CY Exc																												
CY Emb																												

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
NEVADA AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2239
SCALE AS SHOWN
SHEET NO. 6 OF 18

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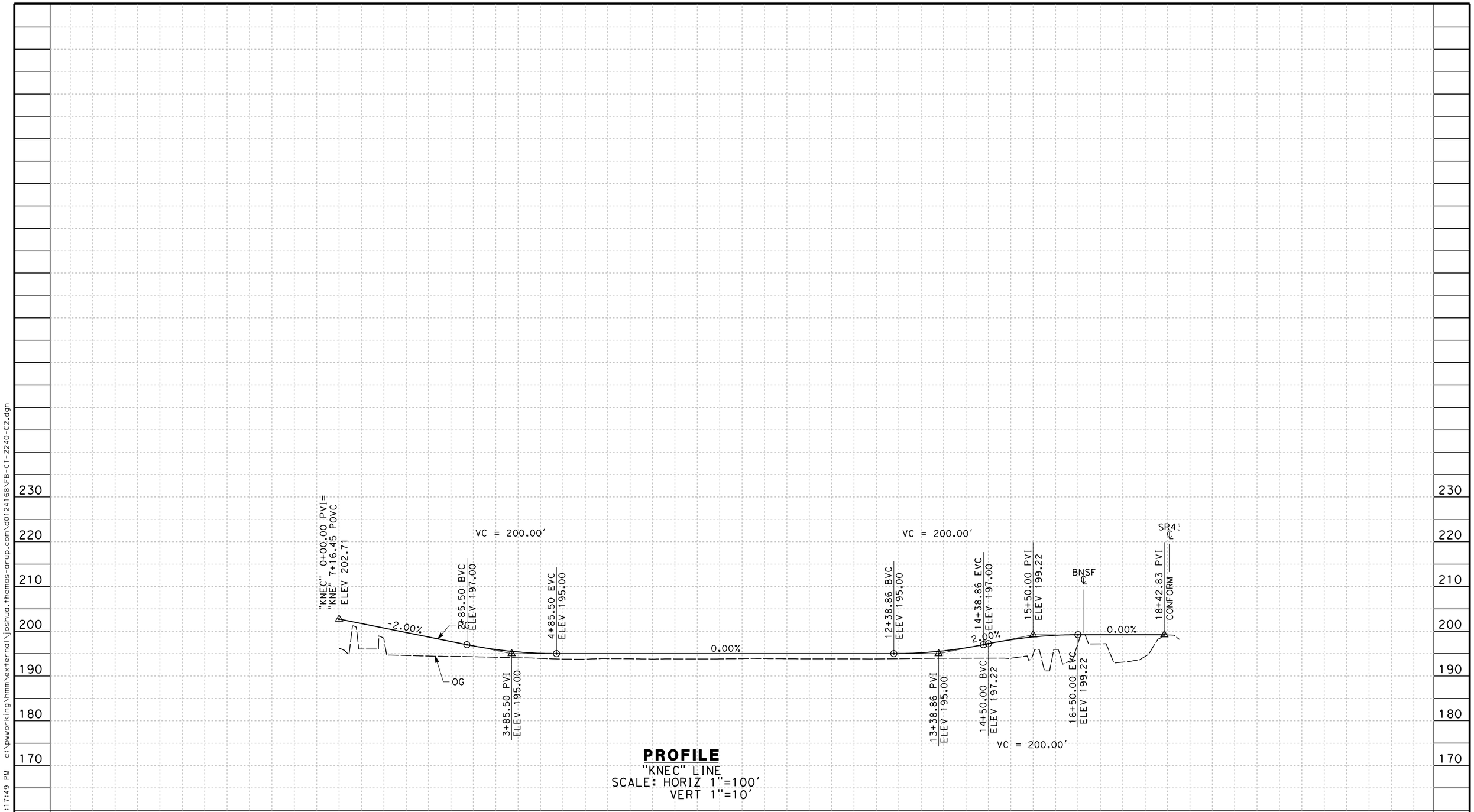

PROFILE
"KNEC" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
NEVADA AVE CONNECTOR

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2240
SCALE AS SHOWN
SHEET NO. 7 OF 18

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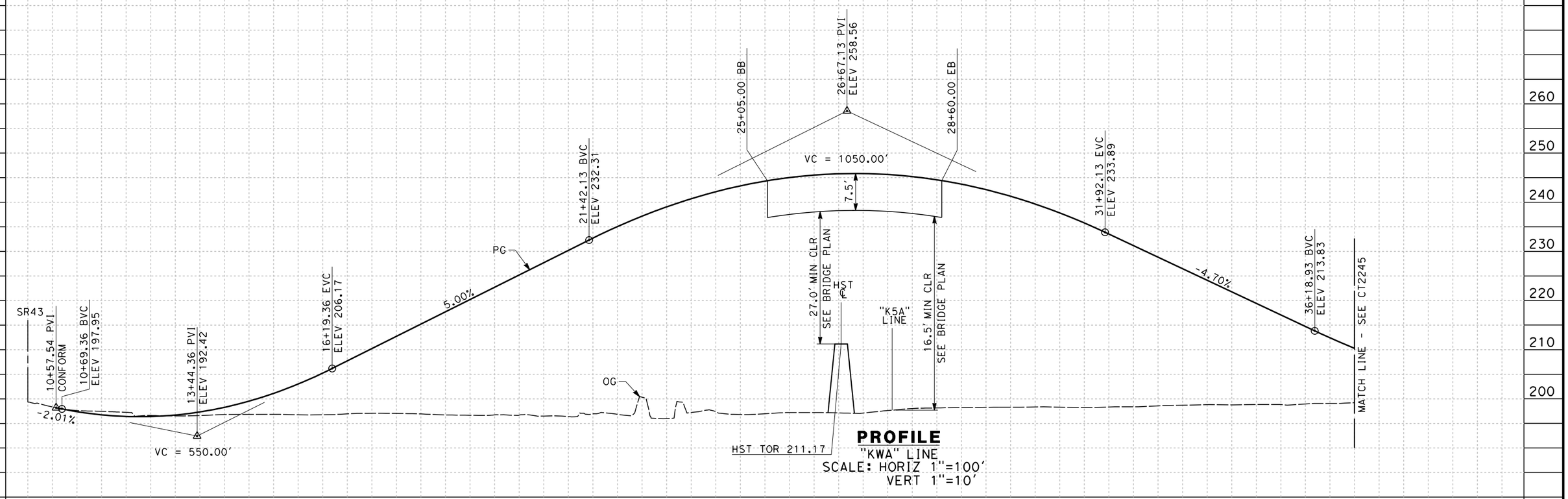
NOTES:

1. MINIMUM VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE OVER LOCAL STREET IS 16.5' FROM ROAD SURFACE



PROFILE
"KWA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7	TOTAL
CY Exc																													
CY Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
CORCORAN HWY

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2244
SCALE AS SHOWN
SHEET NO. 8 OF 18

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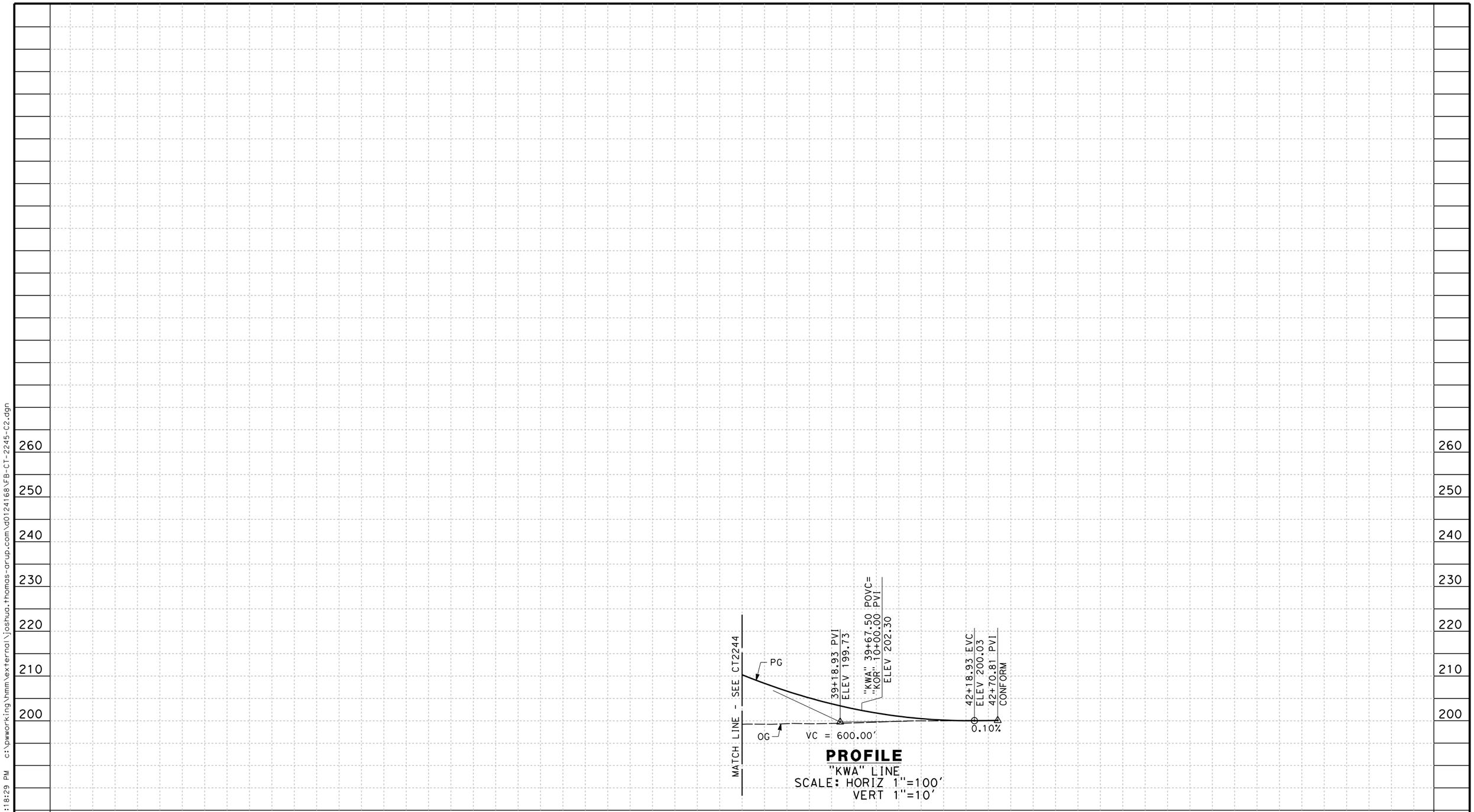

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
CORCORAN HWY

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2245
SCALE AS SHOWN
SHEET NO. 9 OF 18

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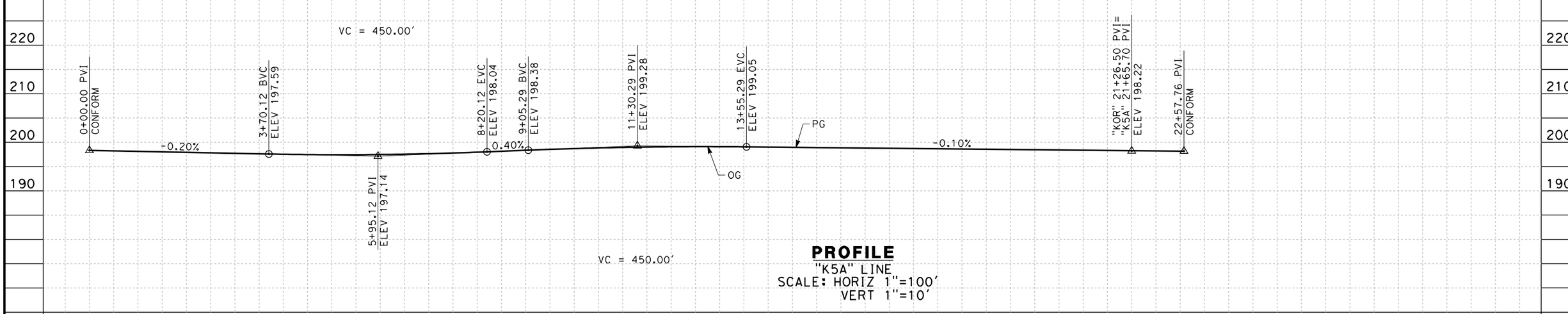
NOTES:

1. REFER TO DRAWING CT1244 FOR LAYOUT



PROFILE
"K5A" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	15	6	7	8	9	20	1	2	3	TOTAL
CY	Exc																									
	Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

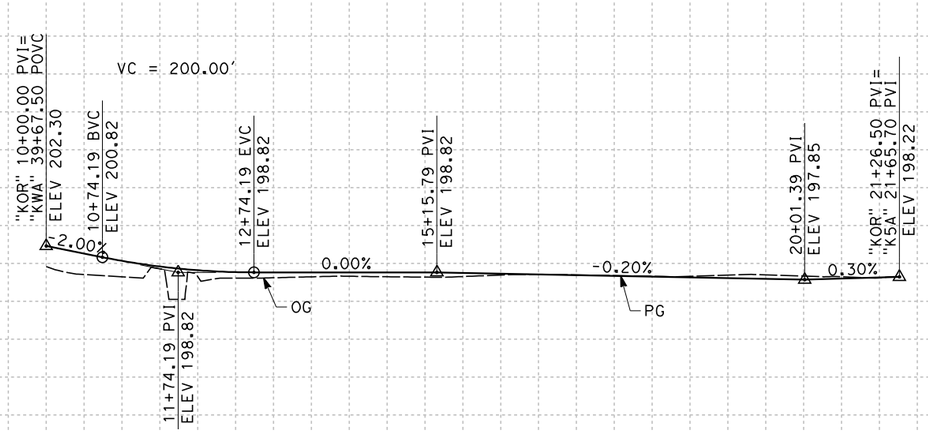
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
5TH AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2246
SCALE AS SHOWN
SHEET NO. 10 OF 18

$FILE$ $TIME$ $DATE$ $USER$

NOTES:

1. REFER TO DRAWING CT1244 FOR LAYOUT



PROFILE

"KOR" LINE

SCALE: HORIZ 1"=100'

VERT 1"=10'

STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	TOTAL
CY	Exc															
	Emb															

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEPARATION PROFILE
ORANGE AVE CONNECTOR

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2247
SCALE AS SHOWN
SHEET NO. 11 OF 18

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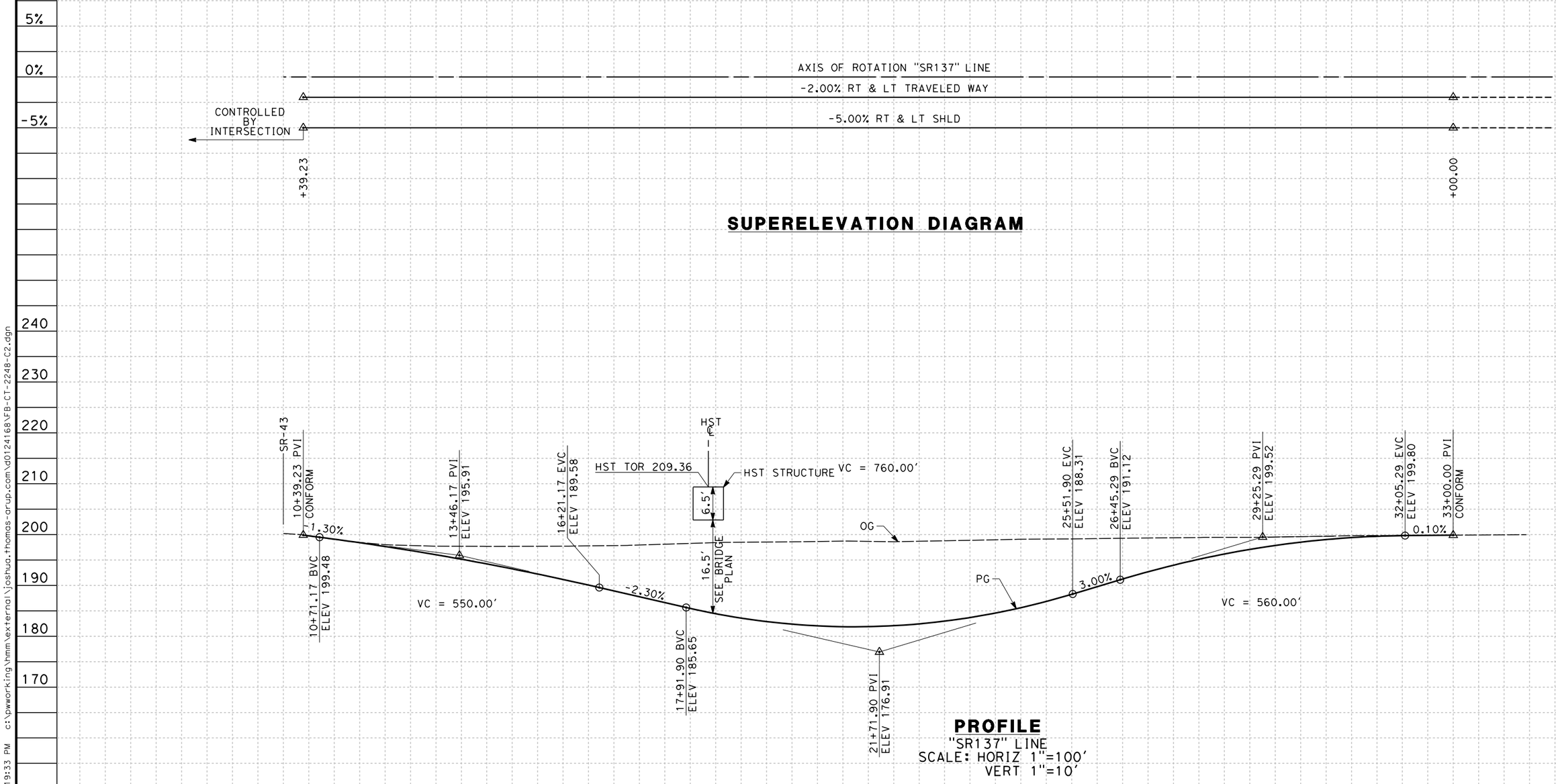
NOTES:
1. MINIMUM VERTICAL CLEARANCE OVER STATE HIGHWAY IS 16.5' FROM ROAD SURFACE



STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	TOTAL
CY	Exc																									
	Emb																									

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
WHITLEY AVE/STATE ROUTE 137

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2248
SCALE AS SHOWN
SHEET NO. 12 OF 18

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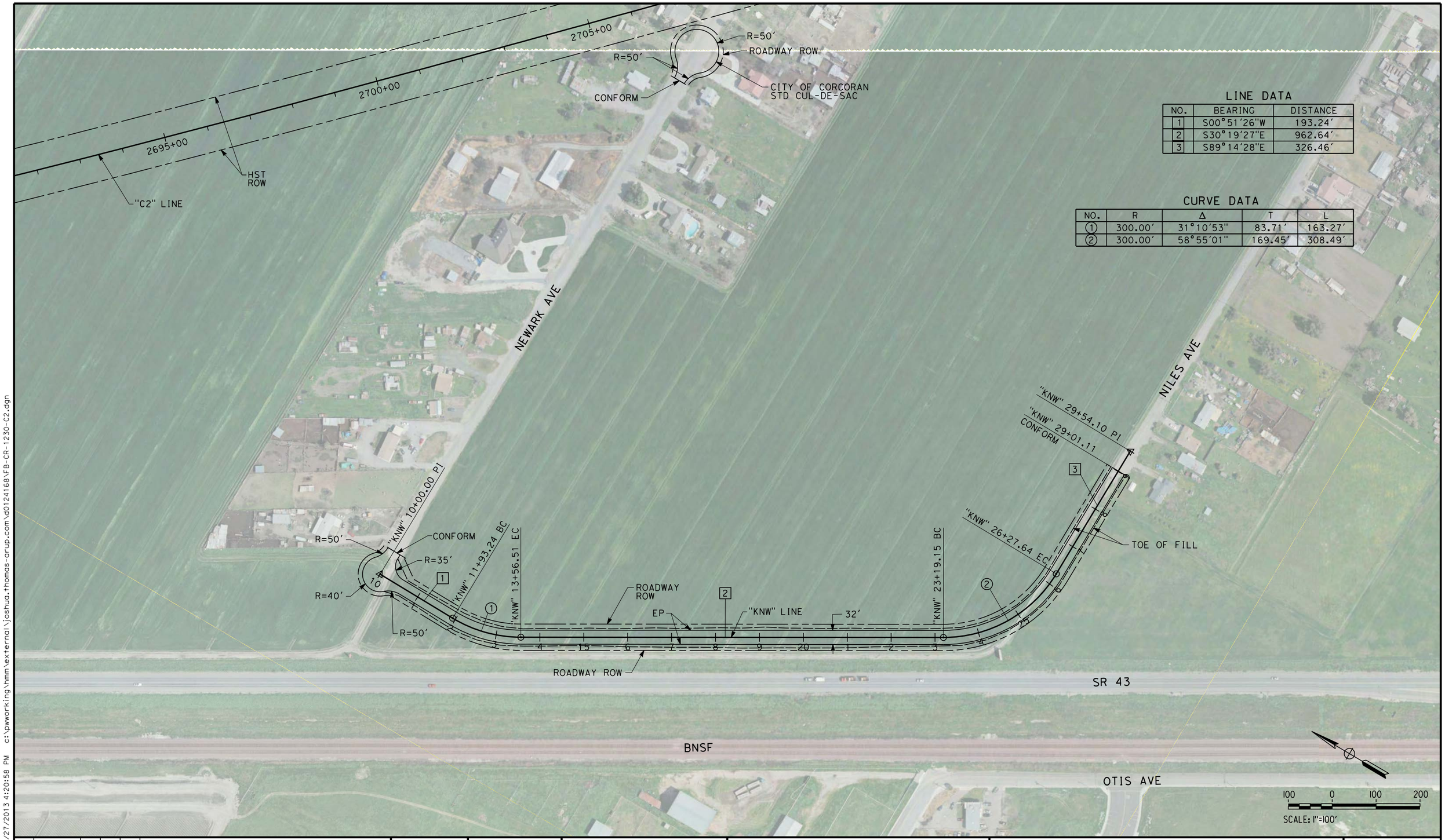

LINE DATA

NO.	BEARING	DISTANCE
1	S00°51'26"W	193.24'
2	S30°19'27"E	962.64'
3	S89°14'28"E	326.46'

CURVE DATA

NO.	R	Δ	T	L
1	300.00'	31°10'53"	83.71'	163.27'
2	300.00'	58°55'01"	169.45'	308.49'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY LAYOUT
NILES AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1230
SCALE AS SHOWN
SHEET NO. 13 OF 18

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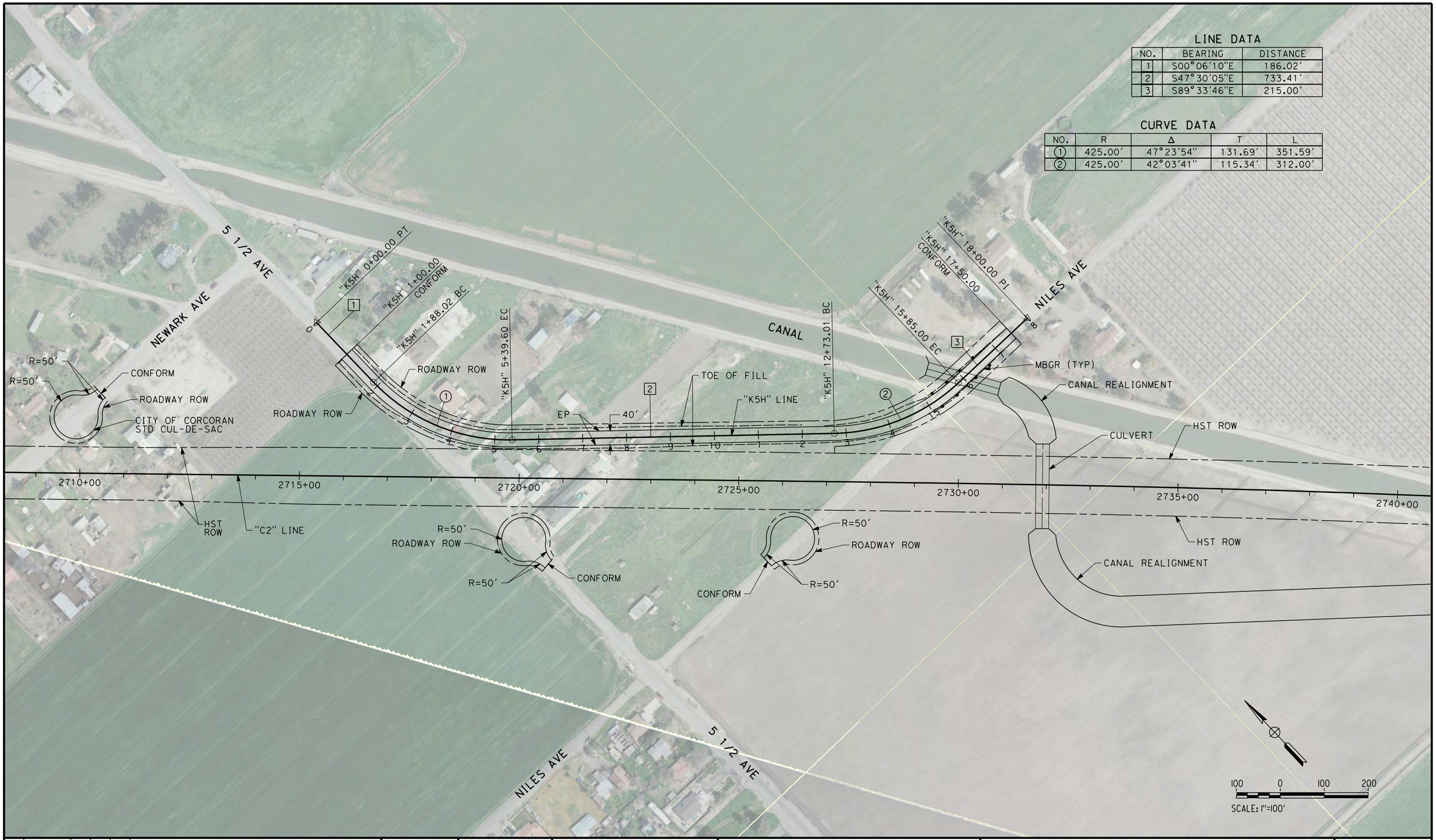


LINE DATA

NO.	BEARING	DISTANCE
1	S00°06'10"E	186.02'
2	S47°30'05"E	733.41'
3	S89°33'46"E	215.00'

CURVE DATA

NO.	R	Δ	T	L
1	425.00'	47°23'54"	131.69'	351.59'
2	425.00'	42°03'41"	115.34'	312.00'

$FILE$
$TIME$
$DATE$
$USER$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

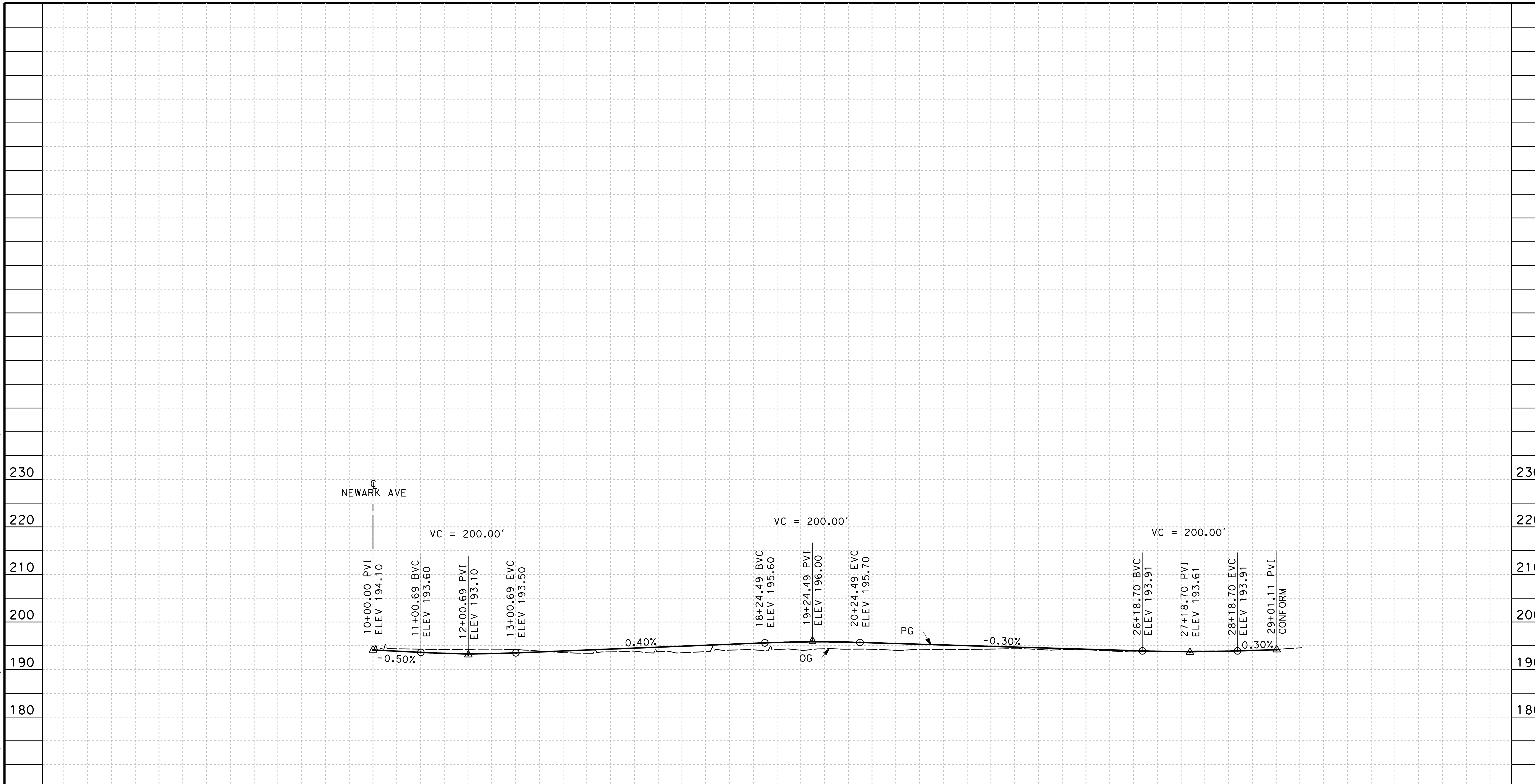
RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY LAYOUT
5 1/2 AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR1231
SCALE AS SHOWN
SHEET NO. 14 OF 18



PROFILE

"KNW" LINE

SCALE: HORIZ 1"=100'

VERT 1"=10'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING

DRAWN BY E. SUDHAUSEN

CHECKED BY S. BROWN

IN CHARGE R. COFFIN

DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION

-

NOT FOR CONSTRUCTION

URS | HMM | ARUP

California High-Speed Train

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT

FRESNO TO BAKERSFIELD

CORCORAN BYPASS SUBSECTION

ALIGNMENT C2

ROADWAY PROFILE

NILES AVE

CONTRACT NO. HSR 06-0003

DRAWING NO. CR2230

SCALE AS SHOWN

SHEET NO. 15 OF 18

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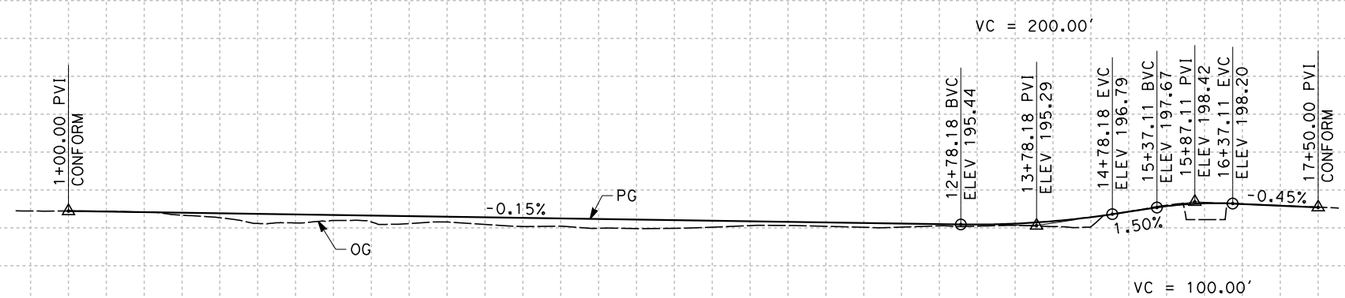

PROFILE
"K5H" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		1	2	3	4	5	6	7	8	9	10	1	2	3	4	15	6	7	8	TOTAL
CY	Exc																			
	Emb																			

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY PROFILE
5 1/2 AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CR2231
SCALE AS SHOWN
SHEET NO. 16 OF 18

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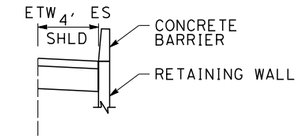
NOTES:

1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

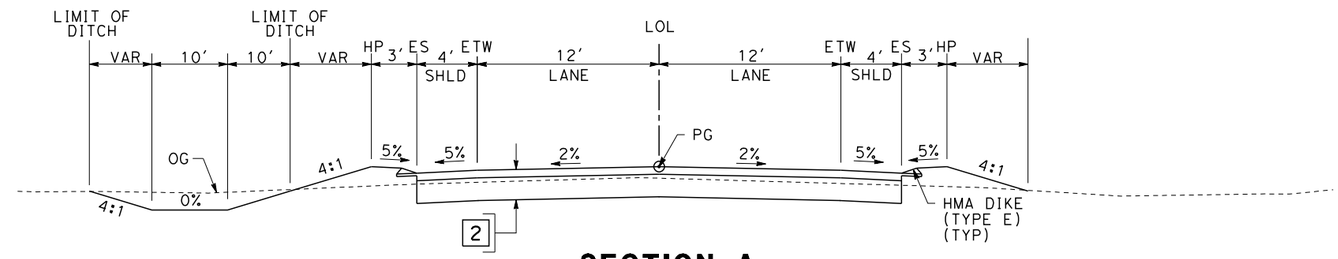


STRUCTURAL SECTIONS

TYPICAL ROADWAY

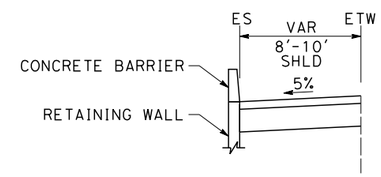
1 — 0.30' HMA (TYPE A)
1.40' CL 2 AB

2 — 0.50' HMA (TYPE A)
1.50' CL 2 AB



SECTION A

"KNE" 4+50.00 TO 15+89.22
"KNE" 22+82.22 TO 37+00.00



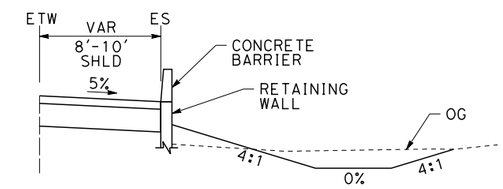
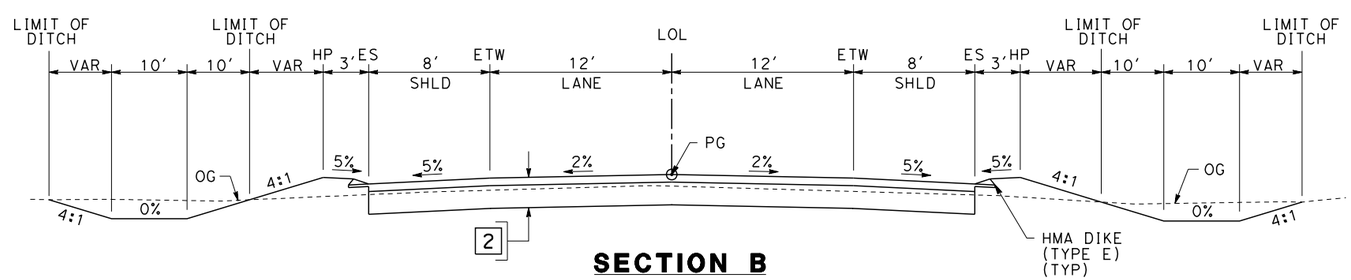


TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED (MPH)	CRITERIA/JURISDICTION
NEVADA AVE	KNE	50	KINGS CO/KINGS CO
NEVADA AVE CONNECTOR	KNEC	25	KINGS CO/KINGS CO
CORCORAN HIGHWAY	KWA	45	HDM/CITY OF CORCORAN
5TH AVE / ORANGE AVE	K5A	35	HDM/CITY OF CORCORAN
ORANGE AVE CONNECTOR	KOR	35	HDM/CITY OF CORCORAN
WHITLEY AVE (STATE ROUTE 137)	SR137	55	HDM/CALTRANS
NILE AVE	KNW	25	HDM/CITY OF CORCORAN
5 1/2 AVE	K5H	25	HDM/CITY OF CORCORAN



SECTION B

"KWA" 10+57.54 TO 25+05.00
"KWA" 28+60.00 TO 41+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

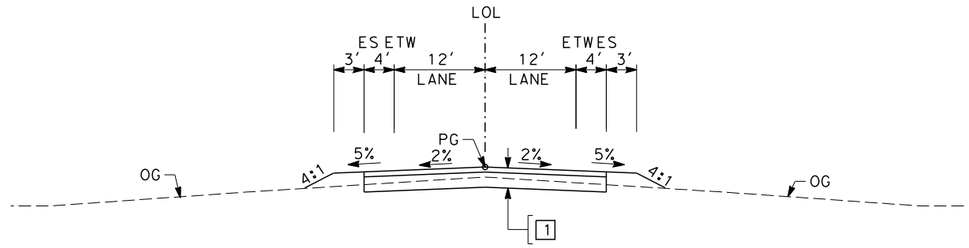
URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

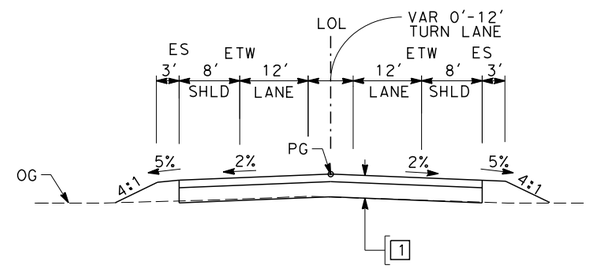
CONTRACT NO. HSR 06-0003
DRAWING NO. CT3042
SCALE NO SCALE
SHEET NO. 17 OF 18

$USER$ $DATE$ $TIME$ $FILE$



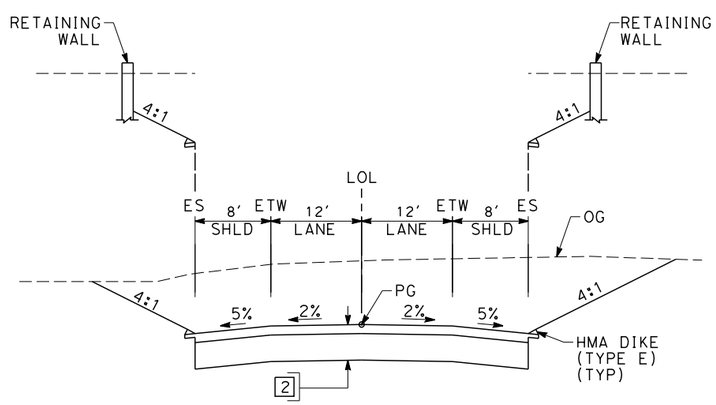
SECTION C

"KNEC" 0+00.00 TO 18+42.83
"KNW" 10+00.00 TO 29+01.11
"K5H" 1+00.00 TO 17+50.00
"K5A" 0+00.00 TO 22+57.76
"KNE" 2+00.00 TO 4+50.00
"KNE" 37+00.00 TO 39+00.00



SECTION D

"KOR" 10+00.00 TO 21+26.50
"KWA" 41+00.00 TO 42+70.81



SECTION E

"SR137" 10+39.23 TO 33+00.00

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. POLING
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION

URS | HMM | ARUP
CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN BYPASS SUBSECTION
ALIGNMENT C2
ROADWAY / GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3043
SCALE NO SCALE
SHEET NO. 18 OF 18

$USER$ $DATE$ $TIME$ $FILE$